

# Author Index

- Abbottsmith, C. W., 212  
 Abdelnor, M., 295  
 Abdunour, E., 218  
 Adams, D. H., 511  
 Akagawa, H., 337  
 Akl, B. F., 359  
 Aldrete, V., 264  
 Alley, R. D., 249  
 Amend, V., 443  
 Anderson, V., 52  
 Antunes, M. J., 387  
 Applegate, B. J., 466  
 Aris, A., 291  
 Arom, K. V., 356  
 Aru, G. M., 456\*  
 Awad, J., 457
- Bahadir, I., 439  
 Baker, A. R., 423  
 Barbero-Marcial, M., 92  
 Barnard, C. N., 179, 243, 431  
 Barner, H. B., 47  
 Basile, F., 218  
 Battaglini, J. W., 185, 355  
 Baumgartner, W. A., 479  
 Bedros, M., 457  
 Beerman, L. B., 417  
 Bekoe, S., 379  
 Belcher, P., 365  
 Benfield, J. R., 111  
 Benson, L., 254  
 Bergdale, R., 519  
 Bergslund, J., 314  
 Berner, M., 355  
 Blackman, M. S., 88  
 Bonchek, L. I., 65\*  
 Bonnin, J. O., 291  
 Borst, H. G., 404  
 Bortolotti, U., 448  
 Bosch, X., 78  
 Botros, S. B., 233  
 Botzko, K., 457  
 Bove, E. L., 88  
 Brackup, A., 479  
 Bradley, E. L., 398  
 Breyer, R. H., 412, 469  
 Brieler, S., 443  
 Brown, J. W., 32, 488  
 Burdon, F. D., 154  
 Burgos, R., 328  
 Byrd, H. S., 204  
 Byrum, C. J., 88
- Callard, G. M., 212  
 Cameron, A. J., 189
- Caralps, J. M., 291  
 Carter, M. J., 180  
 Ceballos, R., 382  
 Celemin, D., 84  
 Chaitman, B. R., 78  
 Chambers, K., 239  
 Chang, Z.-R., 197  
 Chevigné, M., 371  
 Chircop, R. V., 469  
 Chiu, R. C.-J., 229, 439  
 Christian, F. D., 324  
 Chung, G. K. T., 466  
 Cipoletti, G., 448  
 Clark, D. L., 233  
 Clarke, J. M., 355  
 Cobanoglu, A., 52  
 Codd, J. E., 47  
 Cohn, L. H., 355  
 Cole, F. N., 192  
 Conlan, A. A., 108  
 Conti, V. R., 519  
 Cooley, D. A., 76\*  
 Cooper, D. K. C., 179, 243  
 Cooper, J. D., 285\*  
 Copeland, J. G., 521  
 Cordell, A. R., 412  
 Cornish, E. M., 431  
 Coulibaly, A. O., 356  
 Craver, J. M., 473  
 Crexells, C., 291  
 Cummings, R. G., 511
- Dajee, H., 254  
 Darakjian, H., 115  
 David, J.-L., 371  
 Davidson, K. G., 484  
 Deaton, D. W., 309  
 de Boccad, G., 222  
 de la Rocha, A. G., 239  
 Del Campo, C., 440  
 Delikaris, P. G., 108  
 DeMeester, T. R., 115  
 Demos, N. J., 211\*  
 de Nobrega, J., 431  
 Deschner, W. P., 488  
 DeWeese, J. A., 319  
 Diethrich, E. B., 439  
 Dillon, M. L., 171  
 DiMarco, R. F., Jr., 379  
 DiSesa, V. J., 355  
 Dobell, A. R. C., 273  
 Domurado, D., 457  
 Downing, T. P., 479  
 Dudgeon, D. L., 500  
 Duff, J. A., 23\*  
 Dunn, E. J., 212
- Duran, C. M. G., 150  
 Duranceau, A., 346
- Eastridge, C. E., 103  
 Edmunds, L. H., Jr., 72  
 Ehrenhaft, J. L., 211\*  
 Elkins, R. C., 25  
 Ellison, R. G., 1  
 Emery, R. W., 128, 132, 521  
 Engelman, R. M., 469  
 Ergin, M. A., 179
- Faber, L. P., 279, 285\*  
 Fabri, B., 169  
 Factor, S. M., 448  
 Faltas, A. N., 508  
 Fang, R. B., 304  
 Farina, M. A., 249  
 Fatzinger, P., 115  
 Feeley, T., 479  
 Feinberg, H., 304  
 Feng, C. S., 431  
 Fernando, B., 521  
 Figuera, D., 328  
 Fischer, D. R., 417  
 Flege, J. B., Jr., 167, 212  
 Flye, M. W., 123  
 Foker, J., 128  
 Forrester, A. W., 484  
 Foster, E. D., 249  
 Fowler, B. N., 25, 32\*  
 Frame, J. R., 309  
 Frater, R. W. M., 448  
 Freedman, B. M., 309  
 Freimanis, I., 52  
 Fricker, F. J., 417  
 Friedli, B., 355  
 Fukushima, Y., 491  
 Fuller, J. K., 521
- Gabbay, S., 448, 456\*  
 Gabrhel, W., 466  
 Garcia, C., 52  
 Garcia-Rinaldi, R., 520  
 Gardner, M., 141  
 Gauvin, G., 301  
 Geiran, O., 295  
 Geller, E. A., 233  
 Georas, C. S., 324  
 Ghoneim, A. T. M., 181  
 Ghosh, S. C., 519  
 Gil Aguado, M., 84, 164  
 Glenn, W. W. L., 9  
 Goel, I. P., 356  
 Golomb, H. M., 115
- Gosselin, C., 457  
 Goto, K., 491  
 Gott, V. L., 99  
 Griep, R. B., 179  
 Griffith, L. S. C., 60  
 Grondin, C. M., 78  
 Grooters, R. K., 180  
 Grousset, C., 222  
 Grunkemeier, G., 52  
 Guidoin, R., 457  
 Guiraudon, G. M., 67  
 Gulamhusein, S., 67
- Hadi Hakki, A., 356  
 Hadji-Rousou, I., 469  
 Hall, J. R., 500  
 Haller, J. A., Jr., 500  
 Hammond, W. G., 111  
 Hankins, J. R., 192  
 Harbison, W., 469  
 Hargrove, W. C., III, 72  
 Hartmann, A. F., Jr., 12  
 Hassoulas, J., 431  
 Haverich, A., 404  
 Hayward, R. H., 440  
 Held, J. S., 212  
 Hess, P. J., 261  
 Hicks, G. L., Jr., 95, 319  
 Hughes, B., 488  
 Hirata, K., 337  
 Hirose, H., 159  
 Huang, B., 189  
 Hudspeth, A. S., 412  
 Hyman, A. I., 508
- Iascone, C., 115  
 Inoue, H., 497  
 Ionescu, M. I., 181  
 Isomura, T., 337
- Jacobson, J. G., 31\*  
 Jain, A. K., 273  
 Jamieson, G. G., 346  
 Jarvis, E., 67  
 Jenkins, C. D., 286  
 Jensen, T., 111  
 Jensik, R. J., 279  
 Johnston, F. R., 412  
 Jones, D. L., 67  
 Jose, A. B., 233  
 Juffe, A., 328
- Kaiser, G. C., 47, 58\*  
 Karlson, K. E., 324  
 Karp, R. B., 382  
 Kato, H., 337

\*Discussion.

# Author Index

- Abbottsmith, C. W., 212  
 Abdelnor, M., 295  
 Abdunour, E., 218  
 Adams, D. H., 511  
 Akagawa, H., 337  
 Akl, B. F., 359  
 Aldrete, V., 264  
 Alley, R. D., 249  
 Amend, V., 443  
 Anderson, V., 52  
 Antunes, M. J., 387  
 Applegate, B. J., 466  
 Aris, A., 291  
 Arom, K. V., 356  
 Aru, G. M., 456\*  
 Awad, J., 457
- Bahadir, I., 439  
 Baker, A. R., 423  
 Barbero-Marcial, M., 92  
 Barnard, C. N., 179, 243, 431  
 Barner, H. B., 47  
 Basile, F., 218  
 Battaglini, J. W., 185, 355  
 Baumgartner, W. A., 479  
 Bedros, M., 457  
 Beerman, L. B., 417  
 Bekoe, S., 379  
 Belcher, P., 365  
 Benfield, J. R., 111  
 Benson, L., 254  
 Bergdale, R., 519  
 Bergslund, J., 314  
 Berner, M., 355  
 Blackman, M. S., 88  
 Bonchek, L. I., 65\*  
 Bonnin, J. O., 291  
 Borst, H. G., 404  
 Bortolotti, U., 448  
 Bosch, X., 78  
 Botros, S. B., 233  
 Botzko, K., 457  
 Bove, E. L., 88  
 Brackup, A., 479  
 Bradley, E. L., 398  
 Breyer, R. H., 412, 469  
 Brieler, S., 443  
 Brown, J. W., 32, 488  
 Burdon, F. D., 154  
 Burgos, R., 328  
 Byrd, H. S., 204  
 Byrum, C. J., 88
- Callard, G. M., 212  
 Cameron, A. J., 189
- Caralps, J. M., 291  
 Carter, M. J., 180  
 Ceballos, R., 382  
 Celemin, D., 84  
 Chaitman, B. R., 78  
 Chambers, K., 239  
 Chang, Z.-R., 197  
 Chevigné, M., 371  
 Chircop, R. V., 469  
 Chiu, R. C.-J., 229, 439  
 Christian, F. D., 324  
 Chung, G. K. T., 466  
 Cipoletti, G., 448  
 Clark, D. L., 233  
 Clarke, J. M., 355  
 Cobanoglu, A., 52  
 Codd, J. E., 47  
 Cohn, L. H., 355  
 Cole, F. N., 192  
 Conlan, A. A., 108  
 Conti, V. R., 519  
 Cooley, D. A., 76\*  
 Cooper, D. K. C., 179, 243  
 Cooper, J. D., 285\*  
 Copeland, J. G., 521  
 Cordell, A. R., 412  
 Cornish, E. M., 431  
 Coulibaly, A. O., 356  
 Craver, J. M., 473  
 Crexells, C., 291  
 Cummings, R. G., 511
- Dajee, H., 254  
 Darakjian, H., 115  
 David, J.-L., 371  
 Davidson, K. G., 484  
 Deaton, D. W., 309  
 de Boccad, G., 222  
 de la Rocha, A. G., 239  
 Del Campo, C., 440  
 Delikaris, P. G., 108  
 DeMeester, T. R., 115  
 Demos, N. J., 211\*  
 de Nobrega, J., 431  
 Deschner, W. P., 488  
 DeWeese, J. A., 319  
 Diethrich, E. B., 439  
 Dillon, M. L., 171  
 DiMarco, R. F., Jr., 379  
 DiSesa, V. J., 355  
 Dobell, A. R. C., 273  
 Domurado, D., 457  
 Downing, T. P., 479  
 Dudgeon, D. L., 500  
 Duff, J. A., 23\*  
 Dunn, E. J., 212
- Duran, C. M. G., 150  
 Duranceau, A., 346
- Eastridge, C. E., 103  
 Edmunds, L. H., Jr., 72  
 Ehrenhaft, J. L., 211\*  
 Elkins, R. C., 25  
 Ellison, R. G., 1  
 Emery, R. W., 128, 132, 521  
 Engelman, R. M., 469  
 Ergin, M. A., 179
- Faber, L. P., 279, 285\*  
 Fabri, B., 169  
 Factor, S. M., 448  
 Faltas, A. N., 508  
 Fang, R. B., 304  
 Farina, M. A., 249  
 Fatzinger, P., 115  
 Feeley, T., 479  
 Feinberg, H., 304  
 Feng, C. S., 431  
 Fernando, B., 521  
 Figuera, D., 328  
 Fischer, D. R., 417  
 Flege, J. B., Jr., 167, 212  
 Flye, M. W., 123  
 Foker, J., 128  
 Forrester, A. W., 484  
 Foster, E. D., 249  
 Fowler, B. N., 25, 32\*  
 Frame, J. R., 309  
 Frater, R. W. M., 448  
 Freedman, B. M., 309  
 Freimanis, I., 52  
 Fricker, F. J., 417  
 Friedli, B., 355  
 Fukushima, Y., 491  
 Fuller, J. K., 521
- Gabbay, S., 448, 456\*  
 Gabrhel, W., 466  
 Garcia, C., 52  
 Garcia-Rinaldi, R., 520  
 Gardner, M., 141  
 Gauvin, G., 301  
 Geiran, O., 295  
 Geller, E. A., 233  
 Georas, C. S., 324  
 Ghoneim, A. T. M., 181  
 Ghosh, S. C., 519  
 Gil Aguado, M., 84, 164  
 Glenn, W. W. L., 9  
 Goel, I. P., 356  
 Golomb, H. M., 115
- Gosselin, C., 457  
 Goto, K., 491  
 Gott, V. L., 99  
 Griep, R. B., 179  
 Griffith, L. S. C., 60  
 Grondin, C. M., 78  
 Grooters, R. K., 180  
 Grousset, C., 222  
 Grunkemeier, G., 52  
 Guidoin, R., 457  
 Guiraudon, G. M., 67  
 Gulamhusein, S., 67
- Hadi Hakki, A., 356  
 Hadji-Rousou, I., 469  
 Hall, J. R., 500  
 Haller, J. A., Jr., 500  
 Hammond, W. G., 111  
 Hankins, J. R., 192  
 Harbison, W., 469  
 Hargrove, W. C., III, 72  
 Hartmann, A. F., Jr., 12  
 Hassoulas, J., 431  
 Haverich, A., 404  
 Hayward, R. H., 440  
 Held, J. S., 212  
 Hess, P. J., 261  
 Hicks, G. L., Jr., 95, 319  
 Hughes, B., 488  
 Hirata, K., 337  
 Hirose, H., 159  
 Huang, B., 189  
 Hudspeth, A. S., 412  
 Hyman, A. I., 508
- Iascone, C., 115  
 Inoue, H., 497  
 Ionescu, M. I., 181  
 Isomura, T., 337
- Jacobson, J. G., 31\*  
 Jain, A. K., 273  
 Jamieson, G. G., 346  
 Jarvis, E., 67  
 Jenkins, C. D., 286  
 Jensen, T., 111  
 Jensik, R. J., 279  
 Johnston, F. R., 412  
 Jones, D. L., 67  
 Jose, A. B., 233  
 Juffe, A., 328
- Kaiser, G. C., 47, 58\*  
 Karlson, K. E., 324  
 Karp, R. B., 382  
 Kato, H., 337

\*Discussion.

- Kavey, R.-E. W., 88  
 Kawada, S., 497  
 Kawaguchi, A., 314  
 Kawashima, Y., 159  
 Keagy, B. A., 185  
 Khambatta, H. J., 508  
 King, H., 488  
 King, M., 457  
 King, S. B., III, 473  
 King, T. C., 505  
 Kirklin, J. K., 40  
 Kirschner, P. A., 148, \* 285\*  
 Kittle, C. F., 279  
 Klein, G. J., 67  
 Knight, W. L., 440  
 Koga, M., 337  
 Kohler, J., 304  
 Koide, S., 497  
 Kondo, T., 491  
 Konishi, H., 491  
 Korompai, F. L., 440  
 Kosaka, F., 491  
 Kouhoukos, N. T., 40, 398  
 Krause, A. H., 182  
 Kron, I. L., 422  
  
 Laks, H., 254  
 Lambert, L., 52  
 Lamberti, J. J., 22\*  
 Landymore, R., 141  
 Larrea, J. L., 84  
 Larrieu, A. J., 519  
 Lazar, H. L., 505  
 Leadon, R., 141  
 Lell, W. A., 40  
 Lennox, S. C., 365  
 Levitsky, S., 304, 430, 437  
 Lewis, R. J., 147, 149\*  
 Limet, R., 371  
 Lindberg, H., 295  
 Lindesmith, G. G., 31\*  
 Little, A. G., 115  
 Liu, T., 197  
 Logic, J. R., 382  
 Loop, F. D., 271  
 Lowe, J. E., 511  
 Lucas, S. K., 25  
  
 Maatz, W., 404  
 Mackenzie, J. W., 147  
 MacKinnon, G., 141  
 Magilligan, D. J., Jr., 33  
 Malcolm, I. D., 154  
 Malm, J. R., 508  
 Mann, J. A., 103  
 Marble, A., 141  
 Marcelli, G., 379  
 Marois, M., 457  
 Marrangoni, A., 379  
 Marshall, W. G., Jr., 398  
 Martin, L., 457  
  
 Matar, A. F., 258  
 Mathews, E. S., 233  
 Mathews, R. A., 417  
 Matsuda, H., 159  
 Matsumura, K., 111  
 McGiffin, D. C., 382  
 McKnight, R. C., 12  
 McLaughlin, J. S., 192  
 Meade, J. B., 169  
 Melvin, D. B., 212  
 Menasché, P., 222  
 Mentzer, R. M., Jr., 422  
 Metras, D., 356  
 Mihm, F., 479  
 Mills, S. A., 412  
 Mirowski, M., 60  
 Mitts, D. L., 212  
 Montero, C. G., 328  
 Moore, R. A., 233  
 Moulton, A. L., 31\*  
 Mower, M. M., 60  
 Müller-Hermelink, K. H., 443  
 Mundth, E. D., 356  
 Murphy, D. A., 473, 519  
 Murphy, W., 359  
 Murray, G. F., 185  
  
 Nakano, S., 159  
 Nanian, K. B., 324  
 Neches, W. H., 417  
 Netto, J., 431  
 Nicolaou, N., 108  
 Nicoloff, D. M., 428  
 Nolan, S. P., 422  
 Novick, R. J., 154  
 Novitzky, D., 179, 243  
 Nuñez, L., 84, 164  
 Nunley, D. L., 52, 393  
  
 Oelert, H., 404  
 Ogawa, J., 497  
 Ohishi, K., 337  
 Oliver, J., 84  
 Olivier, A. F., 96  
 Opie, J. C., 358  
 Oriol, A., 291  
 Ottesen, S., 295  
 Ouattara, K., 356  
 Oyama, C., 33, 159  
  
 Pairolero, P., 358  
 Pak, H., 111  
 Paladugu, R. R., 111  
 Park, S. C., 417  
 Parker, F. B., Jr., 88  
 Pasque, M. K., 309  
 Pate, J. W., 103  
 Pavel, D. G., 304  
 Payne, W. S., 189  
 Pearson, F. G., 441  
  
 Pellegrini, R. V., 379  
 Pelletier, C., 78  
 Pellom, G. L., 309  
 Pennington, D. G., 47  
 Perez Martinez, V., 164  
 Perkins, D. G., 67  
 Peters, R. M., 132\*  
 Pieroni, D. R., 314  
 Piwnica, A., 222  
 Platia, E. V., 60  
 Platt, M. R., 98  
 Pluth, J. R., 133  
 Pollock, S. B., 398  
 Pomar, J. L., 78, 83\*  
 Pool, R., 108  
 Poser, H., 443  
 Prager, R. L., 98  
 Prieto, I., 218  
 Peyeritz, R. E., 500  
  
 Rashid, A., 169  
 Razook, J. D., 25  
 Razzuk, M. A., 204  
 Reale, D., 519  
 Reece, I. J., 484  
 Reid, P. R., 60  
 Reisinger, T. J., 167  
 Reitz, B. A., 479  
 Replogle, R. L., 132\*  
 Revuelta, J. M., 150  
 Rheuban, K. S., 422  
 Rigo, P., 371  
 Riley, R. R., 324  
 Robicsek, F., 261  
 Robison, R. J., 488  
 Roland, J. M., 314  
 Rosenberg, S. A., 123  
 Roth, J. A., 423  
 Rouge, J.-C., 355  
 Rutilanchas, J. J., 328  
  
 Sabbagh, A. H., 466  
 Sadeghi, A. M., 479  
 Salerno, T. A., 154  
 Salley, R. K., 319  
 Samson, R., 229  
 Sánchez, H. E., 431  
 Santos, L. P., 387  
 Sanz, E., 164  
 Sato, S., 159  
 Savageau, J. A., 286  
 Schaff, H. V., 133  
 Schröder, D., 443  
 Seki, S., 491  
 Semb, B. K. H., 295  
 Sethi, S. M., 204  
 Sethia, B., 484  
 Shaher, R. M., 249  
 Shapira, N., 133  
 Shaw, R. R., 343  
 Shimazaki, Y., 159  
  
 Shohtsu, A., 497  
 Shumway, N. E., 479  
 Shuttleworth, P., 466  
 Siewers, R. D., 417  
 Silverman, N. A., 304, 430, 437  
 Simon, T. L., 359  
 Singh, A. K., 324  
 Sisler, G. E., 147  
 Skinner, D. B., 183  
 Skinner, J., 216\*  
 Snyder, R., 457  
 Soltanzadeh, H., 180  
 Sondheimer, H. M., 88  
 Spodick, D. H., 519  
 Spooner, E. W., 249  
 Spotnitz, H. M., 65\*  
 Stanton, B.-A., 286  
 Starek, P. J. K., 185  
 Starr, A., 52, 59, \* 393  
 Stefaniszyn, H. J., 154  
 Stewart, J. R., 99  
 Stinson, E. B., 65\*  
 Stone, J. G., 508  
 Subramanian, S., 314  
 Sugarbaker, P. H., 423  
 Sun, C., 197  
 Svennevig, J. L., 295  
  
 Taber, R. E., 264  
 Taff, R., 301  
 Tandon, A., 181  
 Tauxe, W. N., 382  
 Thermann, M., 443  
 Thomashow, B., 505  
 Thompson, T. R., 128  
 Thompson, W. M., Jr., 25  
 Thornton, R. E., 431  
 Thurer, R. L., 286  
 Toon, R. S., 180  
 Tragou, E. T., 98  
 Troidl, H., 443  
 Tyers, G. F. O., 520  
 Tyras, D. H., 47  
  
 Ugarte, J., 328  
 Umlas, J., 301  
 Urschel, H. C., Jr., 204, 211\*  
  
 Vajtai, P., 261  
 Val, F., 150  
 Vathe, K., 295  
 Verginelli, G., 92  
 Vila, J., 92  
  
 Wasserman, F., 448  
 Watkins, L., Jr., 60, 66\*  
 Webb, W. R., 132\*  
 Wechsler, A. S., 309  
 Weldon, C. S., 12, 24\*

Wesly, R. L. R., 511  
Wetstein, L., 179  
White, R. D., 133  
Whittelsey, G., 519  
Whittredge, P., 469  
Wicomb, W. N., 243

Wilcox, B. R., 185  
Wilkins, E. W., Jr., 101  
Williams, D. O., 324  
Williams, G. R., 25  
Willman, V. L., 47  
Wilson, J. M., 212, 217\*

Woltering, G., 123  
Woodring, J. H., 171  
Wright, C. B., 167, 212  
Wu, L. H., 197  
Xu, L., 197

Yee, R., 67  
Yoshioka, F., 337

Zerbini, E. J., 92  
Zuberbuhler, J. R., 417  
Zuhdi, N., 83\*

# Subject Index

- Accidents, traffic  
complete transection of the intrathoracic trachea due to blunt trauma (Lazar et al), CASE REPORT, 505
- Achalasia of esophagus. See Cardiospasm
- Adenosine triphosphate  
chronic hypoxemia depresses global ventricular function and predisposes to the depletion of high-energy phosphates during cardioplegic arrest, implications for surgical repair of cyanotic congenital heart defects (Silverman et al), 304  
effects of delay in administration of potassium cardioplegia to the isolated rat heart (Freedman et al), 309
- Agglutination  
effect of hypothermic cardiopulmonary bypass on patients with low-titer, nonspecific cold agglutinins (Moore et al), 233
- Albumin  
albumin coating of a knitted polyester arterial prosthesis, alternative to preclotting (Guidoin et al), 457
- Amiodarone  
effects of oral amiodarone on left ventricular function in dogs, clinical implications for patients with life-threatening ventricular tachycardia (Landymore et al), 141
- Ampicillin  
cefamandole versus ampicillin/cloxacillin (Carter), CORRESPONDENCE, 180; reply (Ghoneim et al), CORRESPONDENCE, 181
- Angelchik prosthesis  
dysphagia with Angelchik prosthesis (Clarke), CORRESPONDENCE, 355; reply (Battaglini), CORRESPONDENCE, 355
- Angina pectoris  
enhanced late survival following coronary artery bypass graft operation for unstable versus chronic angina (Cobanoglu et al), 52  
variant  
rebound vasospasm after coronary revascularization in association with calcium antagonist withdrawal (Engelman et al), 469
- Annulus  
combined annular and supraannular prosthetic implantation for the small aortic annulus (Matar), HOW TO DO IT, 258
- Anoxemia, chronic  
chronic hypoxemia depresses global ventricular function and predisposes to the depletion of high-energy phosphates during cardioplegic arrest, implications for surgical repair of cyanotic congenital heart defects (Silverman et al), 304
- Antibiotics  
mycotic aortic aneurysms in children (Bergsland et al), 314
- Anticoagulation  
prevention of thromboembolism using aspirin after mitral valve replacement with porcine bioprosthesis (Nuñez et al), 84
- Aorta  
ascending  
aortic cannulation techniques (Murphy), CORRESPONDENCE, 519; reply (Garcia-Rinaldi), CORRESPONDENCE, 520; reply (Tyers), CORRESPONDENCE, 520  
combined annular and supraannular prosthetic implantation for the small aortic annulus (Matar), HOW TO DO IT, 258  
thoracic  
management of infected thoracic aortic prosthetic grafts (Hargrove and Edmunds), 72
- Aortic aneurysm  
management of infected thoracic aortic prosthetic grafts (Hargrove and Edmunds), 72  
mycotic aortic aneurysms in children (Bergsland et al), 314
- Aortic arch  
interruption  
interruption of the aortic arch, experience in 17 infants (Fowler et al), 25  
syndromes  
ascending-distal abdominal aorta bypass for treatment of hypoplastic aortic arch and atypical coarctation in the adult (Robicsek et al), HOW TO DO IT, 261
- Aortic coarctation  
ascending-distal abdominal aorta bypass for treatment of hypoplastic aortic arch and atypical coarctation in the adult (Robicsek et al), HOW TO DO IT, 261
- Aortic root  
infection  
surgical management of extravalvular aortic root infection (Sethia et al), 484  
venting  
aortic root venting (Larrieu et al), CORRESPONDENCE, 519; reply (Conti), CORRESPONDENCE, 519
- Aortic valve  
coronary artery stenosis after aortic valve replacement (Chiu), CORRESPONDENCE, 439  
late tears in leaflets of porcine bioprostheses in adults (Pomar et al), 78  
management of infected thoracic aortic prosthetic grafts (Hargrove and Edmunds), 72  
stenosis  
temporary unilateral pulmonary artery occlusion, method for controlling Swan-Ganz catheter-induced hemoptysis (Stone et al), HOW TO DO IT, 508  
surgical management of extravalvular aortic root infection (Sethia et al), 484
- Aortocoronary bypass  
ascending-distal abdominal aorta bypass for treatment of hypoplastic aortic arch and atypical coarctation in the adult (Robicsek et al), HOW TO DO IT, 261  
avoidance of blood transfusion in coronary artery surgery, trial of hydroxyethyl starch (Belcher and Lennox), 365  
calcium channel blockers, intraoperative and postoperative trial in women (Hicks et al), 319  
combined aortocoronary bypass and intraoperative transluminal angioplasty in left main coronary artery disease (Caralps et al), 291  
coronary artery bypass surgery following thrombolytic therapy for acute coronary thrombosis (Wilson et al), 212  
direct current cardioversion (Fernando et al), CORRESPONDENCE, 521  
dissection of the internal mammary artery during cephalic vein removal for coronary artery surgery (Hicks), HOW TO DO IT, 95  
effect of ticlopidine on saphenous vein bypass patency rates, double-blind study (Chevigné et al), 371  
enhanced late survival following coronary artery bypass graft operation for unstable versus chronic angina (Cobanoglu et al), 52  
functional benefits following coronary artery bypass graft surgery (Stanton et al), 286  
global left ventricular impairment and myocardial revascularization, determinants of survival (Tyras et al), 47



- Aortocoronary bypass (continued)**  
 subcutaneous technique for saphenous vein harvest (Rashid et al), HOW TO DO IT, 169  
 upper extremity vein graft for aortocoronary bypass (Prieto et al), 218
- Arachnodactyly**  
 pneumothorax in the Marfan syndrome, prevalence and therapy (Hall et al), 500
- Arrhythmias**  
 treatment of malignant ventricular arrhythmias with combined endocardial resection and implantation of the automatic defibrillator, preliminary report (Watkins et al), 60
- Arterial prosthesis**  
 albumin coating of a knitted polyester arterial prosthesis, alternative to preclotting (Guidoin et al), 457
- Aspirin**  
 prevention of thromboembolism using aspirin after mitral valve replacement with porcine bioprosthesis (Nuñez et al), 84
- Atrioventricular canal**  
 revascularization of the circumflex coronary artery in the atrioventricular groove (Pelligrini et al), 379
- Atrioventricular pad**  
 surgical repair of Wolff-Parkinson-White syndrome, new closed-heart technique (Guiraudon et al), 67
- Balloon counterpulsation**  
 successful balloon counterpulsation for right ventricular failure (Flege et al), CASE REPORT, 167
- Banding**  
 improved method of pulmonary artery banding (Dajee et al), HOW TO DO IT, 254
- Bioprosthesis**  
 adverse effects  
 late tears in leaflets of porcine bioprostheses in adults (Pomar et al), 78  
 Meadox unicuspid pericardial bioprosthetic heart valve, new concept (Gabbay et al), 448  
 performance of glutaraldehyde-preserved porcine bioprosthesis as a mitral valve substitute in a young population group (Antunes and Santos), 387  
 prevention of thromboembolism using aspirin after mitral valve replacement with porcine bioprosthesis (Nuñez et al), 84
- Björk-Shiley valve prosthesis**  
 early results of valve replacement with the Björk-Shiley convexoconcave prosthesis (Marshall et al), 398  
 long-term results of cardiac valve replacement with the Delrin-disc model of the Björk-Shiley valve prosthesis (Montero et al), 328
- Blalock-Taussig procedure**  
 subclavian-pulmonary artery shunts with polytetrafluoroethylene interposition grafts (Bove et al), 88
- Blood circulation, extracorporeal**  
 new venous cannula for use during CPB (Bahadir and Diethrich), CORRESPONDENCE, 439
- Blood coagulation**  
 albumin coating of a knitted polyester arterial prosthesis, alternative to preclotting (Guidoin et al), 457
- Blood expanders. See Plasma substitutes**
- Blood platelets**  
 controlled trial of routine administration of platelet concentrates in cardiopulmonary bypass surgery (Simon et al), 359
- Blood pressure**  
 hemodynamic effects of calcium chloride injection following cardiopulmonary bypass, response to bolus injection and continuous infusion (Shapira et al), 133
- Blood transfusion**  
 avoidance of blood transfusion in coronary artery surgery, trial of hydroxyethyl starch (Belcher and Lennox), 365
- Book review**  
*Cardiac Surgery in Patients with Chronic Renal Disease*, edited by Love (Krause), 182  
*General Thoracic Surgery. Second Edition*, edited by Shields (Pairolero), 358  
*Moss' Heart Disease in Infants, Children and Adolescents. Third Edition*, edited by Adams and Emmanouilides (Opie), 358
- Breast**  
 Poland's syndrome, improved surgical management (Urschel et al), 204
- Breathing. See Respiration**
- Bronchi, radiography**  
 bronchography after bronchoscopy (Taber), CORRESPONDENCE, 264
- Bronchial neoplasms**  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Pearson), EDITORIAL, 441  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Thermann et al), 443
- Bronchoscopy**  
 bronchography after bronchoscopy (Taber), CORRESPONDENCE, 264
- Calcium channel blockers**  
 calcium channel blockers, intraoperative and postoperative trial in women (Hicks et al), 319
- Calcium chloride**  
 hemodynamic effects of calcium chloride injection following cardiopulmonary bypass, response to bolus injection and continuous infusion (Shapira et al), 133
- Cannula**  
 aortic  
 complications of aortic cannulation (Hayward et al), CORRESPONDENCE, 440  
 simplified aortic cannulation (Del Campo), CORRESPONDENCE, 440  
 cavoatrial  
 a new venous cannula for use during CPB (Bahadir and Diethrich), CORRESPONDENCE, 439  
 coronary perfusion  
 atraumatic coronary perfusion cannula (Nicoloff), NOTE, 428
- Cannulation**  
 aortic cannulation techniques (Murphy), CORRESPONDENCE, 519; reply (Garcia-Rinaldi), CORRESPONDENCE, 520; reply (Tyers), CORRESPONDENCE, 520
- Carcinogens**  
 carcinogenesis in canine bismal heterotopic tracheal grafts (Paladugu et al), 111
- Carcinoma**  
 bronchogenic  
 results of sleeve lobectomy for bronchogenic carcinoma in 101 patients (Faber et al), 279  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Pearson), EDITORIAL, 441  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Thermann et al), 443  
 non-oat cell  
 use of serum albumin for further classification of Stage III non-oat cell lung cancer and its therapeutic implications (Fatzinger et al), 115  
 renal cell  
 renal cell carcinoma (Platt), CORRESPONDENCE, 523; reply (Prager), CORRESPONDENCE, 98
- Carcinosarcoma**  
 clinical and pathological characteristics of carcinosarcoma of the esophagus, report of four cases (Xu et al), 197

## Cardiac output

- hemodynamic effects of calcium chloride injection following cardiopulmonary bypass, response to bolus injection and continuous infusion (Shapira et al), 133
- phenolamine and dobutamine (DiSesa and Cohn), CORRESPONDENCE, 355; reply (Berner et al), CORRESPONDENCE, 355
- reconstruction of right ventricular outflow and pulmonary artery with a composite pericardial monocusp patch, experimental study (Revuelta et al), 150

## Cardiac tamponade

- Kussmaul's sign (Spodick), CORRESPONDENCE, 519
- neonatal pneumopericardium, a surgical emergency (Emery et al), 128
- pneumopericardium resulting in a cardiac tamponade (Cummins et al), COLLECTIVE REVIEW, 511

Cardioplegia. *See* Heart arrest, induced

## Cardiopulmonary bypass

- complement (C3, C4) consumption in cardiopulmonary bypass, cardioplegia, and protamine administration (Chiu and Samson), 229
- controlled trial of routine administration of platelet concentrates in cardiopulmonary bypass surgery (Simon et al), 359
- effect of hypothermic cardiopulmonary bypass on patients with low-titer, nonspecific cold agglutinins (Moore et al), 233
- effect of sodium nitroprusside (Arom), CORRESPONDENCE, 356
- effects of oral amiodarone on left ventricular function in dogs, clinical implications for patients with life-threatening ventricular tachycardia (Landymore et al), 141
- fresh frozen plasma, solution to heparin resistance during cardiopulmonary bypass (Sabbagh et al), 466
- hemodynamic effects of calcium chloride injection following cardiopulmonary bypass, response to bolus injection and continuous infusion (Shapira et al), 133
- heparin monitoring and neutralization during cardiopulmonary bypass using a rapid plasma separator and a fluorometric assay (Umlas et al), 301
- hydroxyethyl starch versus albumin for colloid infusion following cardiopulmonary bypass in patients undergoing myocardial revascularization (Kirklin et al), 40
- new venous cannula for use during CPB (Bahadir and Diethrich), CORRESPONDENCE, 439
- should the lungs be ventilated during cardiopulmonary bypass? clinical, hemodynamic, and metabolic changes in patients undergoing elective coronary artery surgery (Svennevig et al), 295
- simplified aortic cannulation (Del Campo), CORRESPONDENCE, 440
- ultrafiltration during cardiopulmonary bypass, laboratory evaluation and initial clinical experience (Magilligan and Oyama), 33

## Cardiospasm

- myotomy and achalasia (Skinner), EDITORIAL, 183
- selective application of fundoplication in achalasia (Murray et al), 185

## Case report

- cardiac rhabdomyoma in the neonate, surgical management (Foster et al), 249
- complete transection of the intrathoracic trachea due to blunt trauma (Lazar et al), 505
- successful balloon counterpulsation for right ventricular failure (Flege et al), 167
- surgical management of univentricular heart with subaortic obstruction (Park et al), 417
- surgical repair of double-outlet right atrium (Nuñez et al), 164
- surgical treatment of double-outlet left ventricle in situs inversus (I,D,D) (Akagawa et al), 337
- transposition of the great arteries associated with total anomalous pulmonary venous connection, surgical approach (Barbero-Marcial et al), 92

## Catheters, adverse effects

- mycotic aortic aneurysms in children (Bergsland et al), 314

## Cefamandole

- cefamandole versus ampicillin/cloxacillin (Carter), CORRESPONDENCE, 180; reply (Ghoneim et al), CORRESPONDENCE, 181

## Cephalic vein

- dissection of the internal mammary artery during cephalic vein removal for coronary artery surgery (Hicks), HOW TO DO IT, 95

## Chest wall

- radical forequarter amputation with chest wall resection (Roth et al), HOW TO DO IT, 423

## Child

- mycotic aortic aneurysms in children (Bergsland et al), 314
- surgical repair of double-outlet right atrium (Nuñez et al), CASE REPORT, 164
- surgical treatment of double-outlet left ventricle in situs inversus (I,D,D) (Akagawa et al), CASE REPORT, 337
- surgical treatment of tetralogy of Fallot (Sánchez et al), COLLECTIVE REVIEW, 431

## Classics in thoracic surgery

- in proper perspective, Daniel Hale Williams, M.D. (Olivier), 96
- Pancoast's tumor (Shaw), 343

## Clip technique

- simple, rapid technique for operative closure of patent ductus arteriosus in the premature infant (Kron et al), HOW TO DO IT, 422

## Cloxacillin

- cefamandole versus ampicillin/cloxacillin (Carter), CORRESPONDENCE, 180; reply (Ghoneim et al), CORRESPONDENCE, 181

## Collective review

- malignant tracheoesophageal fistula (Duranceau and Jamieson), 346
- pneumopericardium resulting in a cardiac tamponade (Cummins et al), 511
- radiographic manifestations of mediastinal hemorrhage from blunt chest trauma (Woodring and Dillon), 171
- surgical treatment of tetralogy of Fallot (Sánchez et al), 431

## Colon transplantation

- colon interposition for benign esophageal disease, experience with 23 patients (Hankins et al), 192

## Commissurotomy

- long-term results of open mitral commissurotomy for mitral stenosis with severe subvalvular changes, ten-year evaluation (Nakano et al), 159

## Complement C3

- complement (C3, C4) consumption in cardiopulmonary bypass, cardioplegia, and protamine administration (Chiu and Samson), 229

## Complement C4

- complement (C3, C4) consumption in cardiopulmonary bypass, cardioplegia, and protamine administration (Chiu and Samson), 229

## Conduits, right ventricular

- histopathological evaluation of woven and knitted Dacron grafts for right ventricular conduits, comparative experimental study (Haverich et al), 404

## Cordis model 233F pacemaker

- direct current cardioversion (Fernando et al), CORRESPONDENCE, 521

## Coronary artery

## circumflex

- revascularization of the circumflex coronary artery in the atrioventricular groove (Pelligrini et al), 379

## dissection

- distal coronary artery dissection following percutaneous transluminal coronary angioplasty (Murphy et al), 473

## stenosis

- coronary artery stenosis after aortic valve replacement (Chiu), CORRESPONDENCE, 439

**Coronary artery bypass grafting**

- coronary artery bypass surgery following thrombolytic therapy for acute coronary thrombosis (Wilson et al), 212
- enhanced late survival following coronary artery bypass graft operation for unstable versus chronic angina (Cobanoglu et al), 52
- global left ventricular impairment and myocardial revascularization, determinants of survival (Tyras et al), 47
- subcutaneous technique for saphenous vein harvest (Rashid et al), HOW TO DO IT, 169

**Coronary disease**

- avoidance of blood transfusion in coronary artery surgery, trial of hydroxyethyl starch (Belcher and Lennox), 365
- combined aortocoronary bypass and intraoperative transluminal angioplasty in left main coronary artery disease (Caralps et al), 291
- coronary artery stenosis after aortic valve replacement (Chiu), CORRESPONDENCE, 439
- distal coronary artery dissection following percutaneous transluminal coronary angioplasty (Murphy et al), 473
- treatment of malignant ventricular arrhythmias with combined endocardial resection and implantation of the automatic defibrillator, preliminary report (Watkins et al), 60

**Coronary vasospasm. See Angina pectoris, variant****Correspondence**

- aortic cannulation techniques (Murphy), 519; reply (Garcia-Rinaldi), 520; reply (Tyers), 520
- aortic root venting (Larrieu et al), 519; reply (Conti), 519
- bronchography after bronchoscopy (Taber), 264
- cefamandole versus ampicillin/cloxacillin (Carter), 180; reply (Ghoneim et al), 181
- circulatory assistance with allograft (Novitzky et al), 179
- complete esophageal diversion (Wetstein et al), 179
- complications of aortic cannulation (Hayward et al), 440
- coronary artery stenosis after aortic valve replacement (Chiu), 439
- direct current cardioversion (Fernando et al), 521
- dysphagia with Angelchik prosthesis (Clarke), 355; reply (Battaglini), 355
- effect of sodium nitroprusside (Arom), 356
- Ionescu-Shiley valve defect (Toon et al), 180
- Kussmaul's sign (Spodick), 519
- mitral annuloplasty in endomyocardial fibrosis (Metras et al), 356
- new venous cannula for use during CPB (Bahadir and Diethrich), 439
- pacemaker inhibition (Hadi Hakki et al), 356
- phenolamine and dobutamine (DiSesa and Cohn), 355; reply (Berner et al), 355
- polypropylene suture fracture (Aldrete), 264
- renal cell carcinoma (Platt), 98; reply (Prager), 98
- Seldinger wire for pericardiocentesis (Tragus), 98; reply (Stewart and Gott), 99
- simplified aortic cannulation (Del Campo), 440

**Creatine phosphate**

- chronic hypoxemia depresses global ventricular function and predisposes to the depletion of high-energy phosphates during cardioplegic arrest, implications for surgical repair of cyanotic congenital heart defects (Silverman et al), 304
- effects of delay in administration of potassium cardioplegia to the isolated rat heart (Freedman et al), 309

**Cross-clamping**

- questions (Silverman and Levitsky), THORACIC SURGERY QUIZ, 430

**Cryogenic surgery**

- surgical repair of Wolff-Parkinson-White syndrome, new closed-heart technique (Guiraudon et al), 67

**Cyanosis**

- subclavian-pulmonary artery shunts with polytetrafluoroethylene interposition grafts (Bove et al), 88

**Dacron graft**

- histopathological evaluation of woven and knitted Dacron grafts for right ventricular conduits, comparative experimental study (Haverich et al), 404

**Defibrillation**

- direct current cardioversion (Fernando et al), CORRESPONDENCE, 521

**Defibrillator, automatic**

- treatment of malignant ventricular arrhythmias with combined endocardial resection and implantation of the automatic defibrillator, preliminary report (Watkins et al), 60

**Deglutition disorders**

- dysphagia with Angelchik prosthesis (Clarke), CORRESPONDENCE, 355; reply (Battaglini), CORRESPONDENCE, 355
- lower esophageal ring, experiences in treatment of 88 patients (Eastridge et al), 103
- selective application of fundoplication in achalasia (Murray et al), 185

**Delrin-disc occluder**

- long-term results of cardiac valve replacement with the Delrin-disc model of the Björk-Shiley valve prosthesis (Montero et al), 328

**Dextran 70**

- prevention of pericardial adhesions with dextran 70 (Robison et al), 488

**Diltiazem**

- rebound vasospasm after coronary revascularization in association with calcium antagonist withdrawal (Engelman et al), 469

**Disability evaluation**

- functional benefits following coronary artery bypass graft surgery (Stanton et al), 286

**Dobutamine**

- phenolamine and dobutamine (DiSesa and Cohn), CORRESPONDENCE, 355; reply (Berner et al), CORRESPONDENCE, 355

**Dog**

- acute physiological changes following heart-lung allotransplantation in dogs (Downing et al), 479
- carcinogenesis in canine bistomal heterotopic tracheal grafts (Paladugu et al), 111
- effects of oral amiodarone on left ventricular function in dogs, clinical implications for patients with life-threatening ventricular tachycardia (Landymore et al), 141
- histopathological evaluation of woven and knitted Dacron grafts for right ventricular conduits, comparative experimental study (Haverich et al), 404
- reconstruction of right ventricular outflow and pulmonary artery with a composite pericardial monocusp patch, experimental study (Revuelta et al), 150
- ultrafiltration during cardiopulmonary bypass, laboratory evaluation and initial clinical experience (Magilligan and Oyama), 33

**Double-outlet left ventricle**

- surgical treatment of double-outlet left ventricle in situs inversus (I,D,D) (Akagawa et al), CASE REPORT, 337

**Ductus arteriosus, patent**

- simple, rapid technique for operative closure of patent ductus arteriosus in the premature infant (Kron et al), HOW TO DO IT, 422

**Dysphagia. See Deglutition disorders****Echocardiography**

- renal cell carcinoma (Platt), CORRESPONDENCE, 98; reply (Prager), CORRESPONDENCE, 98

**Editorial**

- catastrophic hemorrhage during sternal reentry (Loop), 271
- evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Pearson), 441



- lower esophageal ring, how unique? (Wilkins), 101  
myotomy and achalasia (Skinner), 183
- Ejection fraction  
results of radionuclide assessment of cardiac function following transplantation of the heart (McGiffin et al), 382
- Endocarditis, infective  
surgical management of extravalvular aortic root infection (Sethia et al), 484
- Endocardium  
mitral annuloplasty in endomyocardial fibrosis (Metras et al), CORRESPONDENCE, 356  
treatment of malignant ventricular arrhythmias with combined endocardial resection and implantation of the automatic defibrillator, preliminary report (Watkins et al), 60
- Endomyocardial fibrosis  
mitral annuloplasty in endomyocardial fibrosis (Metras et al), CORRESPONDENCE, 356
- Esophageal fistula  
pessimism concerning palliative bypass procedures for established malignant esophagorespiratory fistulas, report of 18 patients (Conlan et al), 108
- Esophageal injuries  
colon interposition for benign esophageal disease, experience with 23 patients (Hankins et al), 192
- Esophageal neoplasms  
clinical and pathological characteristics of carcinosarcoma of the esophagus, report of four cases (Xu et al), 197  
malignant tracheoesophageal fistula (Duranceau and Jamieson), COLLECTIVE REVIEW, 346  
pessimism concerning palliative bypass procedures for established malignant esophagorespiratory fistulas, report of 18 patients (Conlan et al), 108
- Esophageal perforations  
complete esophageal diversion (Wetstein et al), CORRESPONDENCE, 179
- Esophageal reflux  
lower esophageal ring, experiences in treatment of 88 patients (Eastridge et al), 103  
selective application of fundoplication in achalasia (Murray et al), 185
- Esophageal ring  
lower esophageal ring, experiences in treatment of 88 patients (Eastridge et al), 103  
lower esophageal ring, how unique? (Wilkins), EDITORIAL, 101
- Esophageal stenosis  
colon interposition for benign esophageal disease, experience with 23 patients (Hankins et al), 192
- Esophagitis, peptic  
colon interposition for benign esophageal disease, experience with 23 patients (Hankins et al), 192  
dysphagia with Angelchik prosthesis (Clarke), CORRESPONDENCE, 355; reply (Battaglini), CORRESPONDENCE, 355
- Esophagitis, reflux. *See* Esophagitis, peptic
- Esophagostomy  
clinical and pathological characteristics of carcinosarcoma of the esophagus, report of four cases (Xu et al), 197
- Esophagomyotomy  
myotomy and achalasia (Skinner), EDITORIAL, 183  
selective application of fundoplication in achalasia (Murray et al), 185
- Esophagoplasty  
complete esophageal diversion (Wetstein et al), CORRESPONDENCE, 179
- Esophagus  
abnormalities  
lower esophageal ring, how unique? (Wilkins), EDITORIAL, 101  
colon interposition for benign esophageal disease, experience with 23 patients (Hankins et al), 192  
myotomy and achalasia (Skinner), EDITORIAL, 183
- Extremity veins  
upper extremity vein graft for aortocoronary bypass (Prieto et al), 218
- Fibrinolytic agents  
coronary artery bypass surgery following thrombolytic therapy for acute coronary thrombosis (Wilson et al), 212
- Fluorometric assay  
heparin monitoring and neutralization during cardiopulmonary bypass using a rapid plasma separator and a fluorometric assay (Umlas et al), 301
- Forequarter amputation  
radical forequarter amputation with chest wall resection (Roth et al), HOW TO DO IT, 423
- Freezing  
fresh frozen plasma, solution to heparin resistance during cardiopulmonary bypass (Sabbagh et al), 466
- Fundoplication  
myotomy and achalasia (Skinner), EDITORIAL, 183  
selective application of fundoplication in achalasia (Murray et al), 185
- Graft patency  
effect of ticlopidine on saphenous vein bypass patency rates, double-blind study (Chevigné et al), 371
- Graft survival  
results of radionuclide assessment of cardiac function following transplantation of the heart (McGiffin et al), 382
- Graft-versus-host reaction  
histopathological evaluation of woven and knitted Dacron grafts for right ventricular conduits, comparative experimental study (Haverich et al), 404
- Grüntzing's technique  
combined aortocoronary bypass and intraoperative transluminal angioplasty in left main coronary artery disease (Caralps et al), 291
- Heart  
atrium  
differential electrical activity of the atria during cardioplegic arrest in pigs (Novick et al), 154  
atrium, right  
surgical repair of double-outlet right atrium (Nuñez et al), CASE REPORT, 164  
catheterization  
follow-up assessment of St. Jude Medical prosthetic valve in the tricuspid position, clinical and hemodynamic results (Singh et al), 324  
new venous cannula for use during CPB (Bahadir and Diethrich), CORRESPONDENCE, 439  
simplified aortic cannulation (Del Campo), CORRESPONDENCE, 440  
conduction systems  
differential electrical activity of the atria during cardioplegic arrest in pigs (Novick et al), 154  
defects, congenital  
chronic hypoxemia depresses global ventricular function and predisposes to the depletion of high-energy phosphates during cardioplegic arrest, implications for surgical repair of cyanotic congenital heart defects (Silverman et al), 304  
improved method of pulmonary artery banding (Dajee et al), HOW TO DO IT, 254  
interruption of the aortic arch, experience in 17 infants (Fowler et al), 25  
surgical management of univentricular heart with subaortic obstruction (Park et al), CASE REPORT, 417  
surgical repair of double-outlet right atrium (Nuñez et al), CASE REPORT, 164  
surgical treatment of tetralogy of Fallot (Sánchez et al), COLLECTIVE REVIEW, 431

## Heart (continued)

- transposition of the great arteries associated with total anomalous pulmonary venous connection, surgical approach (Barbero-Marcial et al), CASE REPORT, 92
- function tests
- follow-up assessment of St. Jude Medical prosthetic valve in the tricuspid position, clinical and hemodynamic results (Singh et al), 324
- neoplasms
- cardiac rhabdomyoma in the neonate, surgical management (Foster et al), CASE REPORT, 249
- renal cell carcinoma (Platt), CORRESPONDENCE, 98; reply (Prager), CORRESPONDENCE, 98
- septal defects, atrial
- surgical repair of double-outlet right atrium (Nuñez et al), CASE REPORT, 164
- septal defects, ventricular
- interruption of the aortic arch, experience in 17 infants (Fowler et al), 25
- surgery
- catastrophic hemorrhage during redo sternotomy (Dobell and Jain), 273
- catastrophic hemorrhage during sternal reentry (Loop), EDITORIAL, 271
- phenolamine and dobutamine (DiSesa and Cohn), CORRESPONDENCE, 355; reply (Berner et al), CORRESPONDENCE, 355
- prevention of pericardial adhesions with dextran 70 (Robison et al), 488
- prospective study of sternal wound complications (Breyer et al), 412
- surgery, history
- Society of Thoracic Surgeons, the first twenty years (Ellison), SPECIAL REPORT, 1
- univentricular
- surgical management of univentricular heart with subaortic obstruction (Park et al), CASE REPORT, 417
- ventricle
- effects of oral amiodarone on left ventricular function in dogs, clinical implications for patients with life-threatening ventricular tachycardia (Landymore et al), 141
- enhanced late survival following coronary artery bypass graft operation for unstable versus chronic angina (Cobanoglu et al), 52
- global left ventricular impairment and myocardial revascularization, determinants of survival (Tyras et al), 47
- treatment of malignant ventricular arrhythmias with combined endocardial resection and implantation of the automatic defibrillator, preliminary report (Watkins et al), 60
- ventricle, left
- surgical treatment of double-outlet left ventricle in situs inversus (I,D,D) (Akagawa et al), CASE REPORT, 337
- ventricle, right
- histopathological evaluation of woven and knitted Dacron grafts for right ventricular conduits, comparative experimental study (Haverich et al), 404
- successful balloon counterpulsation for right ventricular failure (Flege et al), CASE REPORT, 167
- surgical management of hypoplastic right ventricle with pulmonary atresia or critical pulmonary stenosis with intact ventricular septum (Weldon et al), 12
- Heart arrest, induced
- aortic root venting (Larrieu et al), CORRESPONDENCE, 519; reply (Conti), CORRESPONDENCE, 519
- atraumatic coronary perfusion cannula (Nicoloff), NOTE, 428
- chronic hypoxemia depresses global ventricular function and predisposes to the depletion of high-energy phosphates during cardioplegic arrest, implications for surgical repair of cyanotic congenital heart defects (Silverman et al), 304
- complement (C3, C4) consumption in cardiopulmonary bypass, cardioplegia, and protamine administration (Chiu and Samson), 229
- differential electrical activity of the atria during cardioplegic arrest in pigs (Novick et al), 154
- effect of hypothermic cardiopulmonary bypass on patients with low-titer, nonspecific cold agglutinins (Moore et al), 233
- effects of delay in administration of potassium cardioplegia to the isolated rat heart (Freedman et al), 309
- effects of oral amiodarone on left ventricular function in dogs, clinical implications for patients with life-threatening ventricular tachycardia (Landymore et al), 141
- pacemaker inhibition (Hadi Hakki et al), CORRESPONDENCE, 356
- protective effect of an asanguineous reperfusion solution on myocardial performance following cardioplegic arrest (Menasché et al), 222
- questions (Silverman and Levitsky), THORACIC SURGERY QUIZ, 430
- ultrafiltration during cardiopulmonary bypass, laboratory evaluation and initial clinical experience (Magilligan and Oyama), 33
- Heart transplantation
- acute physiological changes following heart-lung allotransplantation in dogs (Downing et al), 479
- cardiac transplantation following storage of the donor heart by a portable hypothermic perfusion system (Wicomb et al), 243
- results of radionuclide assessment of cardiac function following transplantation of the heart (McGiffin et al), 382
- Heart valve
- prosthesis
- early results of valve replacement with the Björk-Shiley convexoconcave prosthesis (Marshall et al), 398
- evolution of reparative techniques for the mitral valve (Nunley and Starr), 393
- follow-up assessment of St. Jude Medical prosthetic valve in the tricuspid position, clinical and hemodynamic results (Singh et al), 324
- Ionescu-Shiley valve defect (Toon et al), CORRESPONDENCE, 180
- late tears in leaflets of porcine bioprostheses in adults (Pomar et al), 78
- long-term results of cardiac valve replacement with the Delrin-disc model of the Björk-Shiley valve prosthesis (Montero et al), 328
- Meadox unicuspid pericardial bioprosthetic heart valve, new concept (Gabbay et al), 448
- performance of glutaraldehyde-preserved porcine bioprosthesis as a mitral valve substitute in a young population group (Antunes and Santos), 387
- prevention of thromboembolism using aspirin after mitral valve replacement with porcine bioprosthesis (Nuñez et al), 84
- reconstruction of right ventricular outflow and pulmonary artery with a composite pericardial monocusp patch, an experimental study (Revuelta et al), 150
- temporary unilateral pulmonary artery occlusion, method for controlling Swan-Ganz catheter-induced hemoptysis (Stone et al), HOW TO DO IT, 508
- Hemodynamics
- acute physiological changes following heart-lung allotransplantation in dogs (Downing et al), 479
- effects of oral amiodarone on left ventricular function in dogs, clinical implications for patients with life-threatening ventricular tachycardia (Landymore et al), 141
- follow-up assessment of St. Jude Medical prosthetic valve in the tricuspid position, clinical and hemodynamic results (Singh et al), 324
- protective effect of an asanguineous reperfusion solution on

- myocardial performance following cardioplegic arrest (Menasché et al), 222
- should the lungs be ventilated during cardiopulmonary bypass? clinical, hemodynamic, and metabolic changes in patients undergoing elective coronary artery surgery (Svennevig et al), 295
- Hemoptysis**
- temporary unilateral pulmonary artery occlusion, method for controlling Swan-Ganz catheter-induced hemoptysis (Stone et al), HOW TO DO IT, 508
- Hemorrhage**
- catastrophic hemorrhage during redo sternotomy (Dobell and Jain), 273
- catastrophic hemorrhage during sternal reentry (Loop), EDITORIAL, 271
- intratracheal
- endotracheal tube with movable blocker to prevent aspiration of intratracheal bleeding (Inoue et al), 497
- mediastinal
- radiographic manifestations of mediastinal hemorrhage from blunt chest trauma (Woodring and Dillon), COLLECTIVE REVIEW, 171
- Heparin**
- fresh frozen plasma, a solution to heparin resistance during cardiopulmonary bypass (Sabbagh et al), 466
- heparin monitoring and neutralization during cardiopulmonary bypass using a rapid plasma separator and a fluorometric assay (Umlas et al), 301
- History of medicine, 19th century**
- in proper perspective, Daniel Hale Williams, M.D. (Olivier), CLASSICS IN THORACIC SURGERY, 96
- How to do it**
- ascending-distal abdominal aorta bypass for treatment of hypoplastic aortic arch and atypical coarctation in the adult (Robicsek et al), 261
- combined annular and supraannular prosthetic implantation for the small aortic annulus (Matar), 258
- dissection of the internal mammary artery during cephalic vein removal for coronary artery surgery (Hicks), 95
- improved method of pulmonary artery banding (Dajee et al), 254
- radical forequarter amputation with chest wall resection (Roth et al), 423
- simple, rapid technique for operative closure of patent ductus arteriosus in the premature infant (Kron et al), 422
- subcutaneous technique for saphenous vein harvest (Rashid et al), 169
- temporary unilateral pulmonary artery occlusion, method for controlling Swan-Ganz catheter-induced hemoptysis (Stone et al), 508
- Hydroxyethyl starch**
- avoidance of blood transfusion in coronary artery surgery, trial of hydroxyethyl starch (Belcher and Lennox), 365
- hydroxyethyl starch versus albumin for colloid infusion following cardiopulmonary bypass in patients undergoing myocardial revascularization (Kirklin et al), 40
- Hypoplasia of right ventricle**
- surgical management of hypoplastic right ventricle with pulmonary atresia or critical pulmonary stenosis with intact ventricular septum (Weldon et al), 12
- Hypothermia, induced**
- answers (Silverman and Levitsky), THORACIC SURGERY QUIZ, 437
- aortic root venting (Larrieu et al), CORRESPONDENCE, 519; reply (Conti), CORRESPONDENCE, 519
- atraumatic coronary perfusion cannula (Nicoloff), NOTE, 428
- cardiac transplantation following storage of the donor heart by a portable hypothermic perfusion system (Wicomb et al), 243
- chronic hypoxemia depresses global ventricular function and predisposes to the depletion of high-energy phosphates during cardioplegic arrest, implications for surgical repair of cyanotic congenital heart defects (Silverman et al), 304
- complement (C3, C4) consumption in cardiopulmonary bypass, cardioplegia, and protamine administration (Chiu and Samson), 229
- differential electrical activity of the atria during cardioplegic arrest in pigs (Novick et al), 154
- effect of hypothermic cardiopulmonary bypass on patients with low-titer, nonspecific cold agglutinins (Moore et al), 233
- effects of delay in administration of potassium cardioplegia to the isolated rat heart (Freedman et al), 309
- pacemaker inhibition (Hadi Hakki et al), CORRESPONDENCE, 356
- protective effect of an asanguineous reperfusion solution on myocardial performance following cardioplegic arrest (Menasché et al), 222
- questions (Silverman and Levitsky), THORACIC SURGERY QUIZ, 430
- ultrafiltration during cardiopulmonary bypass, laboratory evaluation and initial clinical experience (Magilligan and Oyama), 33
- Hypoxia. See Anoxemia**
- Infant**
- interruption of the aortic arch, experience in 17 infants (Fowler et al), 25
- newborn
- cardiac rhabdomyoma in the neonate, surgical management (Foster et al), CASE REPORT, 249
- neonatal pneumopericardium, surgical emergency (Emery et al), 128
- pneumopericardium resulting in a cardiac tamponade (Cummings et al), COLLECTIVE REVIEW, 511
- surgical management of hypoplastic right ventricle with pulmonary atresia or critical pulmonary stenosis with intact ventricular septum (Weldon et al), 12
- premature
- simple, rapid technique for operative closure of patent ductus arteriosus in the premature infant (Kron et al), HOW TO DO IT, 422
- transposition of the great arteries associated with total anomalous pulmonary venous connection, surgical approach (Barbero-Marcial et al), CASE REPORT, 92
- Intermittent positive-pressure ventilation**
- gas exchange and facilitation of high-frequency ventilation in intrathoracic surgery (Seki et al), 491
- Intrathoracic surgery**
- gas exchange and facilitation of high-frequency ventilation in intrathoracic surgery (Seki et al), 491
- Intubation, endotracheal**
- endotracheal tube with movable blocker to prevent aspiration of intratracheal bleeding (Inoue et al), 497
- Ion channels**
- calcium channel blockers, intraoperative and postoperative trial in women (Hicks et al), 319
- Ionescu-Shiley valve**
- Ionescu-Shiley valve defect (Toon et al), CORRESPONDENCE, 180
- Isoprenaline. See Isoproterenol**
- Isoproterenol**
- phenolamine and dobutamine (DiSesa and Cohn), CORRESPONDENCE, 355; reply (Berner et al), CORRESPONDENCE, 355
- Kussmaul's sign**
- Kussmaul's sign (Spodick), CORRESPONDENCE, 519
- Latissimus dorsi**
- Poland's syndrome, improved surgical management (Urschel et al), 204

- Lobectomy, sleeve**  
 results of sleeve lobectomy for bronchogenic carcinoma in 101 patients (Faber et al), 279
- Lung**  
**neoplasms**  
 aggressive pulmonary resection for metastatic osteogenic and soft tissue sarcomas (Flye et al), 123  
 carcinogenesis in canine bismal heterotopic tracheal grafts (Paladugu et al), 111  
 gas exchange and facilitation of high-frequency ventilation in intrathoracic surgery (Seki et al), 491  
 Pancoast's tumor (Shaw), CLASSICS IN THORACIC SURGERY, 343  
 repeat mediastinoscopy (Lewis et al), 147  
 results of sleeve lobectomy for bronchogenic carcinoma in 101 patients (Faber et al), 279  
 use of serum albumin for further classification of Stage III non-oat cell lung cancer and its therapeutic implications (Fatzinger et al), 115
- surgery**  
 endotracheal tube with movable blocker to prevent aspiration of intratracheal bleeding (Inoue et al), 497
- transplantation**  
 acute physiological changes following heart-lung allotransplantation in dogs (Downing et al), 479
- volume measurements**  
 pain amelioration after thoracotomy, prospective, randomized study (de la Rocha and Chambers), 239
- Lymphatic metastasis**  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Pearson), EDITORIAL, 441  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Thermann et al), 443
- Mammary artery, internal**  
 dissection of the internal mammary artery during cephalic brain removal for coronary artery surgery (Hicks), HOW TO DO IT, 95
- Mammary vein**  
 upper extremity vein graft for aortocoronary bypass (Prieto et al), 218
- Marfan's syndrome. See Arachnodactyly**
- Meadox prosthesis**  
 Meadox unicuspid pericardial bioprosthetic heart valve, new concept (Gabbay et al), 448
- Mediastinoscopy**  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Pearson), EDITORIAL, 441  
 evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Thermann et al), 443  
 repeat mediastinoscopy (Lewis et al), 147
- Mediastinum**  
 radiographic manifestations of mediastinal hemorrhage from blunt chest trauma (Woodring and Dillon), COLLECTIVE REVIEW, 171
- Mitral valve**  
 early results of valve replacement with the Björk-Shiley convexoconcave prosthesis (Marshall et al), 398  
 insufficiency  
 evolution of reparative techniques for the mitral valve (Nunley and Starr), 393  
 late tears in leaflets of porcine bioprostheses in adults (Pomar et al), 78  
 mitral annuloplasty in endomyocardial fibrosis (Metras et al), CORRESPONDENCE, 356  
 performance of glutaraldehyde-preserved porcine bioprosthesis as a mitral valve substitute in a young population group (Antunes and Santos), 387
- prevention of thromboembolism using aspirin after mitral valve replacement with porcine bioprosthesis (Núñez et al), 84
- stenosis**  
 long-term results of open mitral commissurotomy for mitral stenosis with severe subvalvular changes, ten-year evaluation (Nakano et al), 159  
 successful balloon counterpulsation for right ventricular failure (Flege et al), CASE REPORT, 167  
 temporary unilateral pulmonary artery occlusion, method for controlling Swan-Ganz catheter-induced hemoptysis (Stone et al), HOW TO DO IT, 508
- Models, biological**  
 carcinogenesis in canine bismal heterotopic tracheal grafts (Paladugu et al), 111
- Myocardial contraction**  
 global left ventricular impairment and myocardial revascularization, determinants of survival (Tyras et al), 47
- Myocardial infarction**  
 circulatory assistance with allograft (Novitzky et al), CORRESPONDENCE, 179  
 coronary artery bypass surgery following thrombolytic therapy for acute coronary thrombosis (Wilson et al), 212
- Myocardial preservation**  
 answers (Silverman and Levitsky), THORACIC SURGERY QUIZ, 437  
 calcium channel blockers, intraoperative and postoperative trial in women (Hicks et al), 319  
 questions (Silverman and Levitsky), THORACIC SURGERY QUIZ, 430
- Myocardial revascularization**  
 combined aortocoronary bypass and intraoperative transluminal angioplasty in left main coronary artery disease (Caralps et al), 291  
 coronary artery bypass surgery following thrombolytic therapy for acute coronary thrombosis (Wilson et al), 212  
 global left ventricular impairment and myocardial revascularization, determinants of survival (Tyras et al), 47  
 hydroxyethyl starch versus albumin for colloid infusion following cardiopulmonary bypass in patients undergoing myocardial revascularization (Kirklin et al), 40  
 rebound vasospasm after coronary revascularization in association with calcium antagonist withdrawal (Engelman et al), 469  
 revascularization of the circumflex coronary artery in the atrioventricular groove (Pellegrini et al), 379
- Myocardium**  
 answers (Silverman and Levitsky), THORACIC SURGERY QUIZ, 437  
 questions (Silverman and Levitsky), THORACIC SURGERY QUIZ, 430
- Myocutaneous flap**  
 Poland's syndrome, improved surgical management (Urschel et al), 204
- Neoplasm staging**  
 repeat mediastinoscopy (Lewis et al), 147  
 use of serum albumin for further classification of Stage III non-oat cell lung cancer and its therapeutic implications (Fatzinger et al), 115
- Nifedipine**  
 calcium channel blockers, intraoperative and postoperative trial in women (Hicks et al), 319  
 rebound vasospasm after coronary revascularization in association with calcium antagonist withdrawal (Engelman et al), 469
- Nitroprusside**  
 effect of sodium nitroprusside (Arom), CORRESPONDENCE, 356
- Note**  
 atraumatic coronary perfusion cannula (Nicoloff), 428



- Organ preservation**  
 cardiac transplantation following storage of the donor heart by a portable hypothermic perfusion system (Wicomb et al), 243  
 results of radionuclide assessment of cardiac function following transplantation of the heart (McGiffin et al), 382
- Outcome and process assessment**  
 aggressive pulmonary resection for metastatic osteogenic and soft tissue sarcomas (Flye et al), 123  
 coronary artery bypass surgery following thrombolytic therapy for acute coronary thrombosis (Wilson et al), 212  
 enhanced late survival following coronary artery bypass graft operation for unstable versus chronic angina (Cobanoglu et al), 52  
 functional benefits following coronary artery bypass graft surgery (Stanton et al), 286  
 long-term results of cardiac valve replacement with the Delrin-disc model of the Björk-Shiley valve prosthesis (Montero et al), 328  
 long-term results of open mitral commissurotomy for mitral stenosis with severe subvalvular changes, ten-year evaluation (Nakano et al), 159  
 performance of glutaraldehyde-preserved porcine bioprosthesis as a mitral valve substitute in a young population group (Antunes and Santos), 387  
 pessimism concerning palliative bypass procedures for established malignant esophagorespiratory fistulas, report of 18 patients (Conlan et al), 108  
 protective effect of an asanguineous reperfusion solution on myocardial performance following cardioplegic arrest (Menasché et al), 222  
 repeat mediastinoscopy (Lewis et al), 147  
 subclavian-pulmonary artery shunts with polytetrafluoroethylene interposition grafts (Bove et al), 88  
 surgical management for recurrent pharyngoesophageal (Zenker's) diverticulum (Huang et al), 189  
 surgical treatment of tetralogy of Fallot (Sánchez et al), COLLECTIVE REVIEW, 431
- Pacemaker, artificial**  
 direct current cardioversion (Fernando et al), CORRESPONDENCE, 521  
 pacemaker inhibition (Hadi Hakki et al), CORRESPONDENCE, 356
- Pain**  
 pain amelioration after thoracotomy, prospective, randomized study (de la Rocha and Chambers), 239
- Palliative treatment**  
 improved method of pulmonary artery banding (Dajee et al), HOW TO DO IT, 254  
 pessimism concerning palliative bypass procedures for established malignant esophagorespiratory fistulas, report of 18 patients (Conlan et al), 108  
 superior vena cava-pulmonary artery anastomosis (Glenn), EDITORIAL, 9
- Pancoast's syndrome**  
 Pancoast's tumor (Shaw), CLASSICS IN THORACIC SURGERY, 343
- Perfusion**  
 atraumatic coronary perfusion cannula (Nicoloff), NOTE, 428  
 cardiac transplantation following storage of the donor heart by a portable hypothermic perfusion system (Wicomb et al), 243
- Pericardial adhesions**  
 prevention of pericardial adhesions with dextran 70 (Robison et al), 488
- Pericardiocentesis**  
 Seldinger wire for pericardiocentesis (Tragus), CORRESPONDENCE, 98; reply (Stewart and Gott), CORRESPONDENCE, 99
- Pharyngoesophageal diverticulum**  
 surgical management for recurrent pharyngoesophageal (Zenker's) diverticulum (Huang et al), 189
- Phentolamine**  
 phentolamine and dobutamine (DiSesa and Cohn), CORRESPONDENCE, 355; reply (Berner et al), CORRESPONDENCE, 355
- Pig. See Swine**
- Plasma, frozen**  
 fresh frozen plasma, solution to heparin resistance during cardiopulmonary bypass (Sabbagh et al), 466
- Plasma separator**  
 heparin monitoring and neutralization during cardiopulmonary bypass using a rapid plasma separator and a fluorometric assay (Umlas et al), 301
- Plasma substitutes**  
 avoidance of blood transfusion in coronary artery surgery, trial of hydroxyethyl starch (Belcher and Lennox), 365  
 hydroxyethyl starch versus albumin for colloid infusion following cardiopulmonary bypass in patients undergoing myocardial revascularization (Kirklin et al), 40
- Pneumonectomy**  
 results of sleeve lobectomy for bronchogenic carcinoma in 101 patients (Faber et al), 279
- Pneumopericardium**  
 neonatal pneumopericardium, surgical emergency (Emery et al), 128  
 pneumopericardium resulting in a cardiac tamponade (Cummins et al), COLLECTIVE REVIEW, 511
- Pneumothorax**  
 pneumothorax in the Marfan syndrome, prevalence and therapy (Hall et al), 500
- Poland's syndrome**  
 Poland's syndrome, improved surgical management (Urschel et al), 204
- Polypropylene**  
 polypropylene suture fracture (Aldrete), CORRESPONDENCE, 264
- Polytetrafluoroethylene**  
 interruption of the aortic arch, experience in 17 infants (Fowler et al), 25  
 subclavian-pulmonary artery shunts with polytetrafluoroethylene interposition grafts (Bove et al), 88
- Porcine bioprosthesis. See Bioprosthesis**
- Positive end-expiratory pressure**  
 neonatal pneumopericardium, surgical emergency (Emery et al), 128
- Postoperative complications**  
 prospective study of sternal wound complications (Breyer et al), 412
- Potassium**  
 answers (Silverman and Levitsky), THORACIC SURGERY QUIZ, 437  
 questions (Silverman and Levitsky), THORACIC SURGERY QUIZ, 430
- Preclotting prosthesis**  
 albumin coating of a knitted polyester arterial prosthesis, alternative to preclotting (Guidoin et al), 457
- Prosthesis**  
 combined annular and supraannular prosthetic implantation for the small aortic annulus (Matar), HOW TO DO IT, 258  
 complications  
 management of infected thoracic aortic prosthetic grafts (Hargrove and Edmunds), 72  
 design  
 early results of valve replacement with the Björk-Shiley convexoconcave prosthesis (Marshall et al), 398  
 late tears in leaflets of porcine bioprostheses in adults (Pomar et al), 78  
 Meadox unicuspid pericardial bioprosthetic heart valve, new concept (Gabbay et al), 448  
 reconstruction of right ventricular outflow and pulmonary artery with a composite pericardial monocusp patch, experimental study (Revuelta et al), 150



## Protamine

complement (C3, C4) consumption in cardiopulmonary bypass, cardioplegia, and protamine administration (Chiu and Samson), 229

heparin monitoring and neutralization during cardiopulmonary bypass using a rapid plasma separator and a fluorometric assay (Umlas et al), 301

## Pulmonary artery

improved method of pulmonary artery banding (Dajee et al), HOW TO DO IT, 254

successful balloon counterpulsation for right ventricular failure (Flege et al), CASE REPORT, 167

superior vena cava-pulmonary artery anastomosis (Glenn), EDITORIAL, 9

## Pulmonary artery band

surgical management of univentricular heart with subaortic obstruction (Park et al), CASE REPORT, 417

## Pulmonary circulation

should the lungs be ventilated during cardiopulmonary bypass? clinical, hemodynamic, and metabolic changes in patients undergoing elective coronary artery surgery (Svennevig et al), 295

## Pulmonary valve

## atresia

surgical management of hypoplastic right ventricle with pulmonary atresia or critical pulmonary stenosis with intact ventricular septum (Weldon et al), 12

reconstruction of right ventricular outflow and pulmonary artery with a composite pericardial monocusp patch, experimental study (Revuelta et al), 150

## stenosis

surgical management of hypoplastic right ventricle with pulmonary atresia or critical pulmonary stenosis with intact ventricular septum (Weldon et al), 12

surgical treatment of double-outlet left ventricle in situs inversus (I,D,D) (Akagawa et al), CASE REPORT, 337

## Pulmonary vein abnormalities

transposition of the great arteries associated with total anomalous pulmonary venous connection, surgical approach (Barbero-Marcial et al), CASE REPORT, 92

## Radiography

radiographic manifestations of mediastinal hemorrhage from blunt chest trauma (Woodring and Dillon), COLLECTIVE REVIEW, 171

## Radionuclide imaging

results of radionuclide assessment of cardiac function following transplantation of the heart (McGiffin et al), 382

## Radiotherapy

Pancoast's tumor (Shaw), CLASSICS IN THORACIC SURGERY, 343

## Rat

effects of delay in administration of potassium cardioplegia to the isolated rat heart (Freedman et al), 309

## Rehabilitation

functional benefits following coronary artery bypass graft surgery (Stanton et al), 286

## Reoperation

catastrophic hemorrhage during redo sternotomy (Dobell and Jain), 273

catastrophic hemorrhage during sternal reentry (Loop), EDITORIAL, 271

prevention of pericardial adhesions with dextran 70 (Robison et al), 488

## Reperfusion

protective effect of an asanguineous reperfusion solution on myocardial performance following cardioplegic arrest (Menasché et al), 222

## Respiration

## artificial

should the lungs be ventilated during cardiopulmonary bypass? clinical, hemodynamic, and metabolic changes in

patients undergoing elective coronary artery surgery (Svennevig et al), 295

pain amelioration after thoracotomy, prospective, randomized study (de la Rocha and Chambers), 239

## Respiratory distress syndrome

neonatal pneumopericardium, surgical emergency (Emery et al), 128

## Rhabdomyoma

cardiac rhabdomyoma in the neonate, surgical management (Foster et al), CASE REPORT, 249

## Rheumatic valvulitis

performance of glutaraldehyde-preserved porcine bioprosthesis as a mitral valve substitute in a young population group (Antunes and Santos), 387

## Risk

prospective study of sternal wound complications (Breyer et al), 412

## Roller pump suction

aortic root venting (Larrieu et al), CORRESPONDENCE, 519; reply (Conti), CORRESPONDENCE, 519

## St. Jude valve prosthesis

follow-up assessment of St. Jude Medical prosthetic valve in the tricuspid position, clinical and hemodynamic results (Singh et al), 324

## Saphenous vein

effect of ticlopidine on saphenous vein bypass patency rates, double-blind study (Chevigné et al), 371

subcutaneous technique for saphenous vein harvest (Rashid et al), HOW TO DO IT, 169

upper extremity vein graft for aortocoronary bypass (Prieto et al), 218

## Sarcoma

## osteogenic

aggressive pulmonary resection for metastatic osteogenic and soft tissue sarcomas (Flye et al), 123

## soft tissue

aggressive pulmonary resection for metastatic osteogenic and soft tissue sarcomas (Flye et al), 123

## Schatzki's ring

lower esophageal ring, experiences in treatment of 88 patients (Eastridge et al), 103

lower esophageal ring, how unique? (Wilkins), EDITORIAL, 101

## Seldinger wire

Seldinger wire for pericardiocentesis (Tragus), CORRESPONDENCE, 98; reply (Stewart and Gott), CORRESPONDENCE, 99

## Serum albumin

hydroxyethyl starch versus albumin for colloid infusion following cardiopulmonary bypass in patients undergoing myocardial revascularization (Kirklin et al), 40

use of serum albumin for further classification of Stage III non-oat cell lung cancer and its therapeutic implications (Fatzinger et al), 115

## Shock, cardiogenic

circulatory assistance with allograft (Novitzky et al), CORRESPONDENCE, 179

## Society of Thoracic Surgeons

Society of Thoracic Surgeons, first twenty years (Ellison), SPECIAL REPORT, 1

## Sodium nitroprusside. See Nitroprusside

## Staphylococcal infections

cefamandole versus ampicillin/cloxacillin (Carter), CORRESPONDENCE, 180; reply (Ghoneim et al), CORRESPONDENCE, 181

## Sternotomy

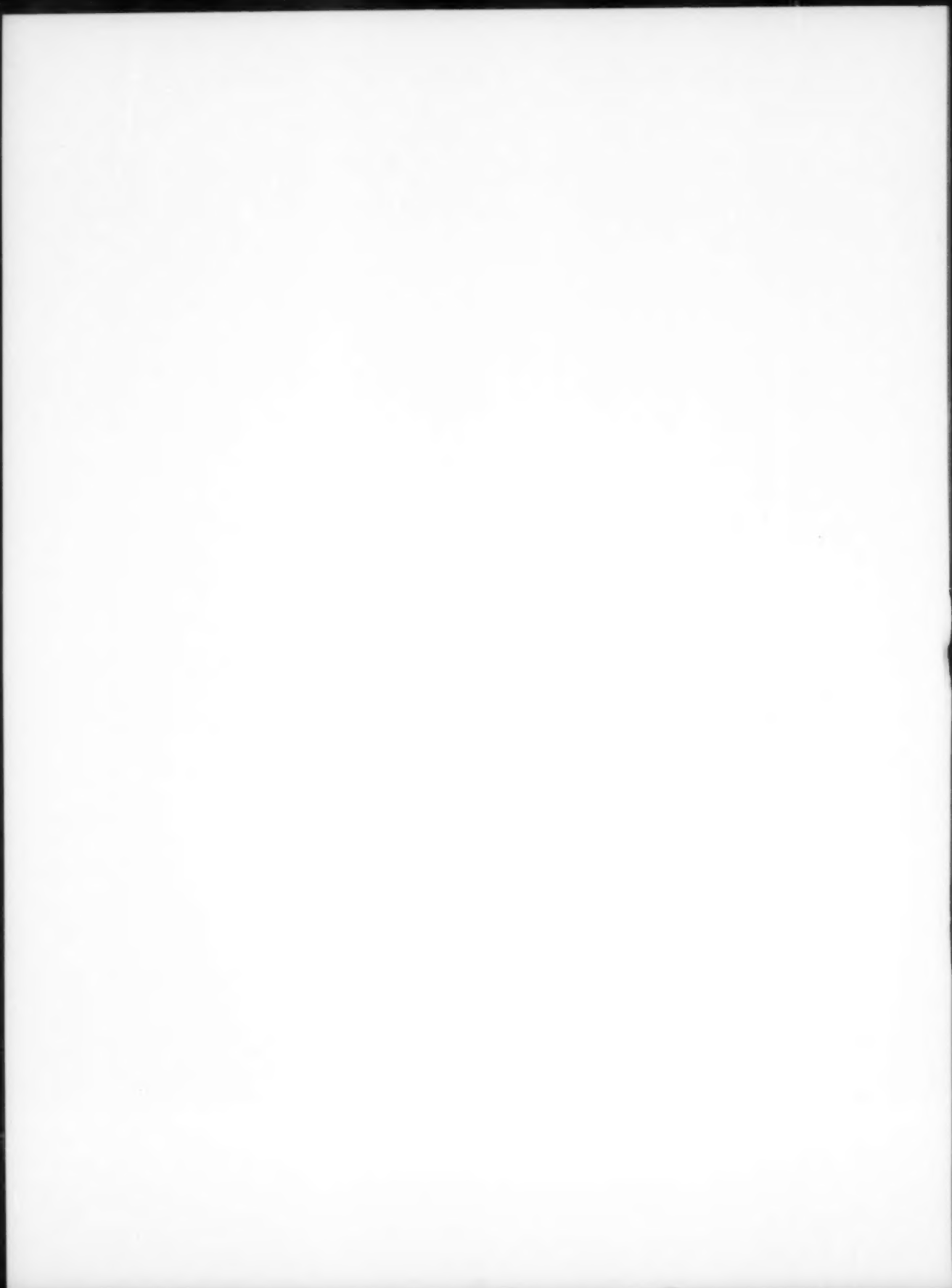
catastrophic hemorrhage during redo sternotomy (Dobell and Jain), 273

catastrophic hemorrhage during sternal reentry (Loop), EDITORIAL, 271

- Sternum injuries  
prospective study of sternal wound complications (Breyer et al), 412
- Stomach neoplasms  
clinical and pathological characteristics of carcinosarcoma of the esophagus, report of four cases (Xu et al), 197
- Subaortic stenosis  
surgical management of univentricular heart with subaortic obstruction (Park et al), CASE REPORT, 417
- Subclavian-pulmonary artery shunt  
subclavian-pulmonary artery shunts with polytetrafluoroethylene interposition grafts (Bove et al), 88
- Subcutaneous technique  
subcutaneous technique for saphenous vein harvest (Rashid et al), HOW TO DO IT, 169
- Surgical flaps  
Poland's syndrome, improved surgical management (Urschel et al), 204
- Survival  
enhanced late survival following coronary artery bypass graft operation for unstable versus chronic angina (Cobanoglu et al), 52  
evolution of reparative techniques for the mitral valve (Nunley and Starr), 393  
use of serum albumin for further classification of Stage III non-oat cell lung cancer and its therapeutic implications (Fatzinger et al), 115
- Suture fractures  
polypropylene suture fracture (Aldrete), CORRESPONDENCE, 264
- Swan-Ganz catheter  
temporary unilateral pulmonary artery occlusion, method for controlling Swan-Ganz catheter-induced hemoptysis (Stone et al), HOW TO DO IT, 508
- Swine  
differential electrical activity of the atria during cardioplegic arrest in pigs (Novick et al), 154
- Tachycardia, ventricular  
effects of oral amiodarone on left ventricular function in dogs, clinical implications for patients with life-threatening ventricular tachycardia (Landymore et al), 141
- Tetralogy of Fallot  
reconstruction of right ventricular outflow and pulmonary artery with a composite pericardial monocusp patch, experimental study (Revuelta et al), 150  
surgical treatment of tetralogy of Fallot (Sánchez et al), COLLECTIVE REVIEW, 431
- Thoracic injuries  
radiographic manifestations of mediastinal hemorrhage from blunt chest trauma (Woodring and Dillon), COLLECTIVE REVIEW, 171
- Thoracic neoplasms  
Pancoast's tumor (Shaw), CLASSICS IN THORACIC SURGERY, 343  
radical forequarter amputation with chest wall resection (Roth et al), HOW TO DO IT, 423
- Thoracic surgery history  
Society of Thoracic Surgeons, first twenty years (Ellison), SPECIAL REPORT, 1
- Thoracic surgery quiz  
answers (Silverman and Levitsky), 437  
questions (Silverman and Levitsky), 430
- Thoracotomy  
aggressive pulmonary resection for metastatic osteogenic and soft tissue sarcomas (Flye et al), 123  
pain amelioration after thoracotomy, prospective, randomized study (de la Rocha and Chambers), 239  
repeat mediastinoscopy (Lewis et al), 147
- Thorax radiography  
pneumothorax in the Marfan syndrome, prevalence and therapy (Hall et al), 500
- Thrombocytopenia. See Thrombopenia
- Thromboembolism  
prevention of thromboembolism using aspirin after mitral valve replacement with porcine bioprosthesis (Nuñez et al), 84
- Thrombolytic agents. See Fibrinolytic agents
- Thrombopenia  
controlled trial of routine administration of platelet concentrates in cardiopulmonary bypass surgery (Simon et al), 359
- Ticlopidine  
effect of ticlopidine on saphenous vein bypass patency rates, double-blind study (Chevigné et al), 371
- Tomography, x-ray  
evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Pearson), EDITORIAL, 441  
evaluation of tomography and mediastinoscopy for the detection of mediastinal lymph node metastases (Thermann et al), 443
- Trachea  
injuries  
complete transection of the intrathoracic trachea due to blunt trauma (Lazar et al), CASE REPORT, 505  
transplantation  
carcinogenesis in canine bistomal heterotopic tracheal grafts (Paladugu et al), 111
- Tracheal neoplasms  
malignant tracheoesophageal fistula (Duranceau and Jamieson), COLLECTIVE REVIEW, 346
- Tracheoesophageal fistula  
malignant tracheoesophageal fistula (Duranceau and Jamieson), COLLECTIVE REVIEW, 346  
pessimism concerning palliative bypass procedures for established malignant esophagorespiratory fistulas, report of 18 patients (Conlan et al), 108
- Transplantation, homologous  
acute physiological changes following heart-lung allotransplantation in dogs (Downing et al), 479  
circulatory assistance with allograft (Novitzky et al), CORRESPONDENCE, 179
- Transposition of great vessels  
transposition of the great arteries associated with total anomalous pulmonary venous connection, surgical approach (Barbero-Marcial et al), CASE REPORT, 92
- Tricuspid valve  
follow-up assessment of St. Jude Medical prosthetic valve in the tricuspid position, clinical and hemodynamic results (Singh et al), 324
- Trocar cannulation  
aortic cannulation techniques (Murphy), CORRESPONDENCE, 519; reply (Garcia-Rinaldi), CORRESPONDENCE, 520; reply (Tyers), CORRESPONDENCE, 520
- Tuberous sclerosis  
cardiac rhabdomyoma in the neonate, surgical management (Foster et al), CASE REPORT, 249
- Ultrafiltration  
ultrafiltration during cardiopulmonary bypass, laboratory evaluation and initial clinical experience (Magilligan and Oyama), 33
- Umbilical artery  
mycotic aortic aneurysms in children (Bergsland et al), 314
- Vascular resistance  
hemodynamic effects of calcium chloride injection following cardiopulmonary bypass, response to bolus injection and continuous infusion (Shapira et al), 133
- Vena cava, superior  
superior vena cava-pulmonary artery anastomosis (Glenn), EDITORIAL, 9

- Ventilation, high-frequency  
gas exchange and facilitation of high-frequency ventilation in intrathoracic surgery (Seki et al), 491
- Ventricular function, global  
chronic hypoxemia depresses global ventricular function and predisposes to the depletion of high-energy phosphates during cardioplegic arrest, implications for surgical repair of cyanotic congenital heart defects (Silverman et al), 304
- Verapamil  
calcium channel blockers, intraoperative and postoperative trial in women (Hicks et al), 319
- Whole blood coagulation time  
fresh frozen plasma, solution to heparin resistance during cardiopulmonary bypass (Sabbagh et al), 466
- Williams, Daniel Hale, M.D.  
in proper perspective, Daniel Hale Williams, M.D. (Olivier), CLASSICS IN THORACIC SURGERY, 96
- Wolff-Parkinson-White syndrome  
surgical repair of Wolff-Parkinson-White syndrome, new closed-heart technique (Guiraudon et al), 67
- Wound healing  
nonpenetrating  
complete transection of the intrathoracic trachea due to blunt trauma (Lazar et al), CASE REPORT, 505  
endotracheal tube with movable blocker to prevent aspiration of intratracheal bleeding (Inoue et al), 497  
pneumopericardium resulting in a cardiac tamponade (Cumings et al), COLLECTIVE REVIEW, 511  
prospective study of sternal wound complications (Breyer et al), 412  
radiographic manifestations of mediastinal hemorrhage from blunt chest trauma (Woodrign and Dillon), COLLECTIVE REVIEW, 171
- stab  
in proper perspective: Daniel Hale Williams, M.D. (Olivier), CLASSICS IN THORACIC SURGERY, 96
- Zenker's diverticulum  
surgical management for recurrent pharyngoesophageal (Zenker's) diverticulum (Huang et al), 189







## CONTENTS

### NO 1 JANUARY 1984

- Special Report* 1 **The Society of Thoracic Surgeons: The First Twenty Years**  
Robert G. Ellison, M.D.  
Historian, The Society of Thoracic Surgeons
- Editorial* 9 **Superior Vena Cava-Pulmonary Artery Anastomosis**  
William W. L. Glenn, M.D.
- Original Articles* 12 **Surgical Management of Hypoplastic Right Ventricle with Pulmonary Atresia or Critical Pulmonary Stenosis with Intact Ventricular Septum**  
Clarence S. Weldon, M.D., Alexis F. Hartmann, Jr., M.D.,  
and Robert C. McKnight, M.D.
- 25 **Interruption of the Aortic Arch: Experience in 17 Infants**  
Burt N. Fowler, M.D., Scott K. Lucas, M.D., Jerry D. Razook, M.D.,  
Webb M. Thompson, Jr., M.D., G. Rainey Williams, M.D.,  
and Ronald C. Elkins, M.D.
- 33 **Ultrafiltration during Cardiopulmonary Bypass: Laboratory Evaluation and Initial Clinical Experience**  
Donald J. Magilligan, Jr., M.D., and Choken Oyama, M.D.
- 40 **Hydroxyethyl Starch versus Albumin for Colloid Infusion following Cardiopulmonary Bypass in Patients Undergoing Myocardial Revascularization**  
James K. Kirklin, M.D., William A. Lell, M.D.,  
and Nicholas T. Kouchoukos, M.D.
- 47 **Global Left Ventricular Impairment and Myocardial Revascularization: Determinants of Survival**  
Denis H. Tyras, M.D., George C. Kaiser, M.D., Hendrick B. Barner, M.D.,  
D. Glenn Pennington, M.D., John E. Codd, M.D.,  
and Vallee L. Willman, M.D.
- 52 **Enhanced Late Survival following Coronary Artery Bypass Graft Operation for Unstable versus Chronic Angina**  
Adnan Cobanoglu, M.D., Imanta Freimanis, M.D., Gary Grunkemeier, Ph.D.,  
Louis Lambert, M.S., Vicki Anderson, B.S., David Nunley, M.D.,  
Carlos Garcia, M.D., and Albert Starr, M.D.
- 60 **The Treatment of Malignant Ventricular Arrhythmias with Combined Endocardial Resection and Implantation of the Automatic Defibrillator: Preliminary Report**  
Levi Watkins, Jr., M.D., Edward V. Platia, M.D., Morton M. Mower, M.D.,  
Lawrence S. C. Griffith, M.D., M. Mirowski, M.D., and Philip R. Reid, M.D.
- 67 **Surgical Repair of Wolff-Parkinson-White Syndrome: A New Closed-Heart Technique**  
Gerard M. Guiraudon, M.D., F.R.C.S.(C), George J. Klein, M.D., F.R.C.P.(C),  
Sajad Gulamhusein, M.D., F.R.C.P.(C), Douglas L. Jones, Ph.D.,  
Raymond Yee, M.D., D. Garth Perkins, M.D., F.R.C.P.(C),  
and Eileen Jarvis, R.T.

- 72 **Management of Infected Thoracic Aortic Prosthetic Grafts**  
W. Clark Hargrove III, M.D., and L. Henry Edmunds, Jr., M.D.
- 78 **Late Tears in Leaflets of Porcine Bioprostheses in Adults**  
Jose Luis Pomar, M.D., Xavier Bosch, M.D., Bernard R. Chaitman, M.D.,  
Conrad Pelletier, M.D., and Claude M. Grondin, M.D.
- 84 **Prevention of Thromboembolism Using Aspirin after Mitral Valve  
Replacement with Porcine Bioprosthesis**  
L. Nuñez, M.D., M. Gil Aguado, M.D., J. L. Larrea, M.D.,  
D. Celemin, M.D., and J. Oliver, M.D.
- 88 **Subclavian-Pulmonary Artery Shunts with Polytetrafluoroethylene  
Interposition Grafts**  
Edward L. Bove, M.D., Henry M. Sondheimer, M.D.,  
Rae-Ellen W. Kavey, M.D., Craig J. Byrum, M.D., Marie S. Blackman, M.D.,  
and Frederick B. Parker, Jr., M.D.
- Case Report* 92 **Transposition of the Great Arteries Associated with Total Anomalous  
Pulmonary Venous Connection: A Surgical Approach**  
Miguel Barbero-Marcial, M.D., Geraldo Verginelli, M.D., José Vila, M.D.,  
and E. J. Zerbini, M.D.
- How to Do It* 95 **Dissection of the Internal Mammary Artery during Cephalic Vein Removal  
for Coronary Artery Surgery**  
George L. Hicks, Jr., M.D.
- Classics in  
Thoracic Surgery* 96 **In Proper Perspective: Daniel Hale Williams, M.D.**  
Albert F. Olivier, M.D.
- Correspondence* 98 **Renal Cell Carcinoma**  
Melvin R. Platt, M.D.
- 98 **Reply**  
Richard L. Prager, M.D.
- 98 **Seldinger Wire for Pericardiocentesis**  
Eugene T. Tragus, M.D.
- 99 **Reply**  
James R. Stewart, M.D., and Vincent L. Gott, M.D.
- Announcements* 100 **1983 Meeting, Southern Thoracic Surgical Association**
- 24 **Notice Regarding Manuscript Submission**
- 32 **Erratum**
- 46 **Notice from the American Board of Thoracic Surgery**
- 66 **Notice from the Editor and the Editorial Board**
- 77 **Notice from the North American Transplant Coordinators Organization**

**NO 2 FEBRUARY 1984**

- Editorial* 101 **The Lower Esophageal Ring: How Unique?**  
Earle W. Wilkins, Jr., M.D.
- Original Articles* 103 **Lower Esophageal Ring: Experiences in Treatment of 88 Patients**  
Charles E. Eastridge, M.D., James W. Pate, M.D.,  
and James A. Mann, M.D.
- 108 **Pessimism Concerning Palliative Bypass Procedures for Established Malignant Esophagorespiratory Fistulas: A Report of 18 Patients**  
A. A. Conlan, F.R.C.S., N. Nicolaou, F.R.C.S.(Ed), P. G. Delikaris, M.D.,  
and R. Pool, M.B., B.Ch.(Pret)
- 111 **Carcinogenesis in Canine Bistomal Heterotopic Tracheal Grafts**  
Rao R. Paladugu, M.D., William G. Hammond, M.D.,  
John R. Benfield, M.D., Thomas Jensen, B.S., Hyun Pak, M.D.,  
and Kimito Matsumura, M.D.
- 115 **The Use of Serum Albumin for Further Classification of Stage III Non-Oat Cell Lung Cancer and Its Therapeutic Implications**  
Phyllis Fatzinger, R.D., Tom R. DeMeester, M.D., Hrair Darakjian, M.D.,  
Clemente Iascone, M.D., Harvey M. Golomb, M.D.,  
and Alex G. Little, M.D.
- 123 **Aggressive Pulmonary Resection for Metastatic Osteogenic and Soft Tissue Sarcomas**  
M. Wayne Flye, M.D., Ph.D., Gene Woltering, M.D.,  
and Steven A. Rosenberg, M.D., Ph.D.
- 128 **Neonatal Pneumopericardium: A Surgical Emergency**  
Robert W. Emery, M.D., John Foker, M.D.,  
and Theodore R. Thompson, M.D.
- 133 **Hemodynamic Effects of Calcium Chloride Injection following Cardiopulmonary Bypass: Response to Bolus Injection and Continuous Infusion**  
Nadiv Shapira, M.D., Hartzell V. Schaff, M.D., Roger D. White, M.D.,  
and James R. Pluth, M.D.
- 141 **Effects of Oral Amiodarone on Left Ventricular Function in Dogs: Clinical Implications for Patients with Life-Threatening Ventricular Tachycardia**  
Roderick Landymore, M.D., Allan Marble, Ph.D., Gregory MacKinnon, M.D.,  
Richard Leadon, C.P.P., and Martin Gardner, M.D.
- 147 **Repeat Mediastinoscopy**  
Ralph J. Lewis, M.D., Glenn E. Sisler, M.D., and James W. Mackenzie, M.D.
- 150 **Reconstruction of Right Ventricular Outflow and Pulmonary Artery with a Composite Pericardial Monocusp Patch: An Experimental Study**  
Jose M. Revuelta, M.D., Fernando Val, M.D.,  
and Carlos M. G. Duran, M.D., Ph.D.

- 154 **Differential Electrical Activity of the Atria during Cardioplegic Arrest in Pigs**  
Richard J. Novick, M.D., Henry J. Stefaniszyn, M.D., Ian D. Malcolm, M.D.,  
France D. Burdon, B.S., and Tomas A. Salerno, M.D.
- 159 **Long-term Results of Open Mitral Commissurotomy for Mitral Stenosis  
with Severe Subvalvular Changes: A Ten-Year Evaluation**  
Susumu Nakano, M.D., Yasunaru Kawashima, M.D., Hajime Hirose, M.D.,  
Hikaru Matsuda, M.D., Yasuhisa Shimazaki, M.D., Shigeo Sato, M.D.,  
and Chohken Ohyama, M.D.
- Case Reports* 164 **Surgical Repair of Double-Outlet Right Atrium**  
L. Nuñez, M.D., M. Gil Aguado, M.D., E. Sanz, M.D.,  
and V. Perez Martinez, M.D.
- 167 **Successful Balloon Counterpulsation for Right Ventricular Failure**  
John B. Flege, Jr., M.D., Creighton B. Wright, M.D.,  
and Timothy J. Reisinger, B.S., C.C.T.
- How to Do It* 169 **Subcutaneous Technique for Saphenous Vein Harvest**  
A. Rashid, F.R.C.S., B. Fabri, F.R.C.S., and J. B. Meade, F.R.C.S.
- Collective Review* 171 **Radiographic Manifestations of Mediastinal Hemorrhage  
from Blunt Chest Trauma**  
John H. Wodring, M.D., and Marcus L. Dillon, M.D.
- Correspondence* 179 **Circulatory Assistance with Allograft**  
D. Novitzky, M.D., F.C.S.(SA), D. K. C. Cooper, M.A., M.B., B.S., Ph.D.,  
F.R.C.S., and C. N. Barnard, M.D., M.Med., M.S., Ph.D., F.A.C.S.,  
F.A.C.C., D.Sc.(Hon Causa)
- 179 **Complete Esophageal Diversion**  
Lewis Wetstein, M.D., M. Arisan Ergin, M.D., and Randall B. Griepp, M.D.
- 180 **Ionescu-Shiley Valve Defect**  
Richard S. Toon, M.D., Ronald K. Grooters, M.D.,  
and Hooshang Soltanzadeh, M.D.
- 180 **Cefamandole versus Ampicillin/Cloxacillin**  
Mary Jo Carter, M.D.
- 181 **Reply**  
A. T. M. Ghoneim, M.R.C.Path., A. Tandon, M.R.C.P., and M. I. Ionescu, M.D.
- Review of Recent Books* 182 **Cardiac Surgery in Patients with Chronic Renal Disease,**  
edited by Jack Love, Ph.D., M.D.  
Albert H. Krause, M.D.
- Announcements* 102 **Notice Regarding Manuscript Submission**
- 149 **Notice from the Southern Thoracic Surgical Association**
- 163 **Notice from the American Board of Thoracic Surgery**
- 182 **Notice from the North American Transplant Coordinators Organization**

**NO 3 MARCH 1984**

- Editorial* 183 **Myotomy and Achalasia**  
David B. Skinner, M.D.

- Original Articles* 185 **Selective Application of Fundoplication in Achalasia**  
Gordon F. Murray, M.D., James W. Battaglini, M.D., Blair A. Keagy, M.D.,  
Peter J. K. Starek, M.D., and Benson R. Wilcox, M.D.
- 189 **Surgical Management for Recurrent Pharyngoesophageal (Zenker's) Diverticulum**  
Biing-shiun Huang, M.D., W. Spencer Payne, M.D.,  
and Alan J. Cameron, M.D.
- 192 **Colon Interposition for Benign Esophageal Disease: Experience with 23 Patients**  
John R. Hankins, M.D., Fred N. Cole, M.D.,  
and Joseph S. McLaughlin, M.D.
- 197 **Clinical and Pathological Characteristics of Carcinosarcoma of the Esophagus: Report of Four Cases**  
Le-tian Xu, M.D., Cheng-fu Sun, M.D., Liang-Hong Wu, M.D.,  
Zhi-Rong Chang, M.D., and Tong-hua Liu, M.D.
- 204 **Poland's Syndrome: Improved Surgical Management**  
Harold C. Urschel, Jr., M.D., H. Steve Byrd, M.D., Sushil M. Sethi, M.D.,  
and Maruf A. Razzuk, M.D.
- 212 **Coronary Artery Bypass Surgery following Thrombolytic Therapy for Acute Coronary Thrombosis**  
James M. Wilson, M.D., John S. Held, M.D., Creighton B. Wright, M.D.,  
Charles W. Abbottsmith, M.D., George M. Callard, M.D.,  
Donald L. Mitts, M.D., Edward J. Dunn, M.D., David B. Melvin, M.D.,  
and John B. Flege, Jr., M.D.
- 218 **Upper Extremity Vein Graft for Aortocoronary Bypass**  
I. Prieto, M.D., F. Basile, M.D., and E. Abdalnour, M.D.
- 222 **Protective Effect of an Asanguineous Reperfusion Solution on Myocardial Performance following Cardioplegic Arrest**  
Philippe Menasché, M.D., Christian Grousset, Ph.D.,  
Georges de Boccard, M.D., and Armand Piwnica, M.D.
- 229 **Complement (C3, C4) Consumption in Cardiopulmonary Bypass, Cardioplegia, and Protamine Administration**  
Ray Chu-Jeng Chiu, M.D., Ph.D., and Roger Samson, C.P.
- 233 **The Effect of Hypothermic Cardiopulmonary Bypass on Patients with Low-Titer, Nonspecific Cold Agglutinins**  
Roger A. Moore, M.D., Edmund A. Geller, M.D., Elaine S. Mathews, M.D.,  
Samir B. Botros, M.D., Arachelle B. Jose, M.D., and Donald L. Clark, M.D.
- 239 **Pain Amelioration after Thoracotomy: A Prospective, Randomized Study**  
A. G. de la Rocha, M.D., and K. Chambers, R.R.T.



- 243 **Cardiac Transplantation following Storage of the Donor Heart by a Portable Hypothermic Perfusion System**  
W. N. Wicomb, B.Sc., D. K. C. Cooper, M.B., B.S., Ph.D., D. Novitzky, M.D., and C. N. Barnard, M.Med., M.S., Ph.D., D.Sc.(Hon Causa)
- Case Report* 249 **Cardiac Rhabdomyoma in the Neonate: Surgical Management**  
Eric D. Foster, M.D., Eric W. Spooner, M.D., Matthew A. Farina, M.D., Reda M. Shaher, M.D., and Ralph D. Alley, M.D.
- How to Do It* 254 **An Improved Method of Pulmonary Artery Banding**  
Himmat Dajee, M.D., Lee Benson, M.D., F.R.C.P.(C), and Hillel Laks, M.D.
- 258 **Combined Annular and Supraannular Prosthetic Implantation for the Small Aortic Annulus**  
Adel F. Matar, M.D., F.R.C.S.
- 261 **Ascending-Distal Abdominal Aorta Bypass for Treatment of Hypoplastic Aortic Arch and Atypical Coarctation in the Adult**  
Francis Robicsek, M.D., Philip J. Hess, M.D., and Peter Vajtai, M.D.
- Correspondence* 264 **Bronchography after Bronchoscopy**  
Rodman E. Taber, M.D.
- 264 **Polypropylene Suture Fracture**  
Victor Aldrete, M.D., F.R.C.S.(C)
- Announcements* 265 **1984 Meeting, The Society of Thoracic Surgeons**
- 266 **The Society of Thoracic Surgeons, 1984-1985: Officers**
- 269 **The Society of Thoracic Surgeons, Members**
- 184 **Notice Regarding Manuscript Submission**
- 221 **Notice from the Southern Thoracic Surgical Association**
- 253 **Notice from the American Board of Thoracic Surgery**
- NO 4 APRIL 1984**
- Editorial* 271 **Catastrophic Hemorrhage during Sternal Reentry**  
Floyd D. Loop, M.D.
- Original Articles* 273 **Catastrophic Hemorrhage during Redo Sternotomy**  
A. R. C. Dobell, M.D., and A. K. Jain, M.D.
- 279 **Results of Sleeve Lobectomy for Bronchogenic Carcinoma in 101 Patients**  
L. Penfield Faber, M.D., Robert J. Jensek, M.D., and C. Frederick Kittle, M.D.
- 286 **Functional Benefits following Coronary Artery Bypass Graft Surgery**  
Babette-Ann Stanton, Ph.D., C. David Jenkins, Ph.D., Judith A. Savageau, M.P.H., and Robert L. Thurer, M.D.

- 291 **Combined Aortocoronary Bypass and Intraoperative Transluminal Angioplasty in Left Main Coronary Artery Disease**  
J. M. Caralps, M.D., C. Crexells, M.D., A. Aris, M.D., J. O. Bonnin, M.D., and A. Oriol, M.D.
- 295 **Should the Lungs Be Ventilated during Cardiopulmonary Bypass? Clinical, Hemodynamic, and Metabolic Changes in Patients Undergoing Elective Coronary Artery Surgery**  
Jan L. Svennevig, M.D., Harald Lindberg, M.D., Odd Geiran, M.D., Bjarne K. H. Semb, M.D., Michel Abdelnor, M.Sc., Stig Ottesen, M.D., and Karleif Vatne, M.D.
- 301 **Heparin Monitoring and Neutralization during Cardiopulmonary Bypass Using a Rapid Plasma Separator and a Fluorometric Assay**  
Joel Umlas, M.D., Gregory Gauvin, M.D., and Ross Taff, M.D.
- 304 **Chronic Hypoxemia Depresses Global Ventricular Function and Predisposes to the Depletion of High-Energy Phosphates during Cardioplegic Arrest: Implications for Surgical Repair of Cyanotic Congenital Heart Defects**  
Norman A. Silverman, M.D., John Kohler, M.D., Sidney Levitsky, M.D., Dan G. Pavel, M.D., Rong B. Fang, M.D., and Harold Feinberg, Ph.D.
- 309 **Effects of Delay in Administration of Potassium Cardioplegia to the Isolated Rat Heart**  
Bruce M. Freedman, M.D., Michael K. Pasque, M.D., Gary L. Pellom, M.S., David W. Deaton, M.D., John R. Frame, M.D., and Andrew S. Wechsler, M.D.
- 314 **Mycotic Aortic Aneurysms in Children**  
Jacob Bergslund, M.D., Akira Kawaguchi, M.D., J. Michel Roland, M.D., Daniel R. Pieroni, M.D., and S. Subramanian, M.D.
- 319 **Calcium Channel Blockers: An Intraoperative and Postoperative Trial in Women**  
George L. Hicks, Jr., M.D., Robert K. Salley, M.D., and James A. DeWeese, M.D.
- 324 **Follow-up Assessment of St. Jude Medical Prosthetic Valve in the Tricuspid Position: Clinical and Hemodynamic Results**  
Arun K. Singh, M.D., Fredric D. Christian, M.D., David O. Williams, M.D., Constantine S. Georas, M.D., Raymon R. Riley, M.D., Kenneth B. Nanian, M.D., and Karl E. Karlson, M.D.
- 328 **Long-Term Results of Cardiac Valve Replacement with the Delrin-Disc Model of the Björk-Shiley Valve Prosthesis**  
C. G. Montero, M.D., J. J. Rufilanchas, M.D., A. Juffe, M.D., R. Burgos, M.D., J. Ugarte, M.D., and D. Figuera, M.D.
- Case Report 337 **Surgical Treatment of Double-Outlet Left Ventricle in Situs Inversus (I,D,D)**  
Haruo Akagawa, M.D., Fumio Yoshioka, M.D., Tadashi Isomura, M.D., Kiroku Ohishi, M.D., Katsuhiko Hirata, M.D., Hirohisa Kato, M.D., and Michihiro Koga, M.D.
- Classics in 343 **Pancoast's Tumor**  
Thoracic Surgery Robert R. Shaw, M.D.

- Collective Review* 346 **Malignant Tracheoesophageal Fistula**  
Andre Duranceau, M.D., and Glyn G. Jamieson, M.S., F.R.A.C.S.
- Correspondence* 355 Dysphagia with Angelchik Prosthesis  
John M. Clarke, M.D.
- 355 Reply  
James W. Battaglini, M.D.
- 355 Phentolamine and Dobutamine  
Verdi J. DiSesa, M.D., and Lawrence H. Cohn, M.D.
- 355 Reply  
Michel Berner, M.D., Jean-Claude Rouge, M.D., and Beat Friedli, M.D.
- 356 Effect of Sodium Nitroprusside  
Kit V. Arom, M.D.
- 356 Pacemaker Inhibition  
A. Hadi Hakki, M.D., F.R.C.S.(C), Inder P. Goel, M.D.,  
and Eldred D. Mundth, M.D.
- 356 Mitral Annuloplasty in Endomyocardial Fibrosis  
Dominique Metras, M.D., André Ouezzin Coulibaly, M.D.,  
and Kouamé Ouattara, M.D.
- Review of Recent Books* 358 General Thoracic Surgery. Second Edition, edited by T. W. Shields  
Peter C. Pairolero, M.D.
- 358 Moss' Heart Disease in Infants, Children and Adolescents. Third Edition,  
edited by Forrest H. Adams and G. C. Emmanouilides  
J. C. Opie, M.D.
- Announcements* 300 Notice from the Southern Thoracic Surgical Association
- 318 Notice from the American Board of Thoracic Surgery
- 345 Notice Regarding Manuscript Submission

# NO 5 MAY 1984

- Original Articles* 359 **Controlled Trial of Routine Administration of Platelet Concentrates  
in Cardiopulmonary Bypass Surgery**  
Toby L. Simon, M.D., Bechara F. Akl, M.D., and William Murphy, M.D.
- 365 **Avoidance of Blood Transfusion in Coronary Artery Surgery:  
A Trial of Hydroxyethyl Starch**  
P. Belcher, F.R.C.S., and S. C. Lennox, F.R.C.S.
- 371 **Effect of Ticlopidine on Saphenous Vein Bypass Patency Rates:  
A Double-Blind Study**  
M. Chevigné, M.D., J.-L. David, M.D., P. Rigo, M.D., and R. Limet, M.D.

- 379 **Revascularization of the Circumflex Coronary Artery in the Atrioventricular Groove**  
Ronald V. Pellegrini, M.D., Gene Marcelli, M.D., Seth Bekoe, M.D., Ross F. DiMarco, Jr., M.D., and Albert Marrangoni, M.D.
- 382 **Results of Radionuclide Assessment of Cardiac Function following Transplantation of the Heart**  
David C. McGiffin, M.B., B.S., F.R.A.C.S., Robert B. Karp, M.D., Joseph R. Logic, M.D., Welby N. Tauxe, M.D., and Ricardo Ceballos, M.D.
- 387 **Performance of Glutaraldehyde-Preserved Porcine Bioprosthesis as a Mitral Valve Substitute in a Young Population Group**  
Manuel J. Antunes, M.D., M.Med., and Luis P. Santos, M.D.
- 393 **The Evolution of Reparative Techniques for the Mitral Valve**  
David L. Nunley, M.D., and Albert Starr, M.D.
- 398 **Early Results of Valve Replacement with the Björk-Shiley Convexoconcave Prosthesis**  
William G. Marshall, Jr., M.D., Nicholas T. Kouchoukos, M.D., Samuel B. Pollock, M.D., and Edwin L. Bradley, Ph.D.
- 404 **Histopathological Evaluation of Woven and Knitted Dacron Grafts for Right Ventricular Conduits: A Comparative Experimental Study**  
A. Haverich, M.D., H. Oelert, M.D., W. Maatz, M.D., and H. G. Borst, M.D.
- 412 **A Prospective Study of Sternal Wound Complications**  
Robert H. Breyer, M.D., Stephen A. Mills, M.D., Allen S. Hudspeth, M.D., Frank R. Johnston, M.D., and A. Robert Cordell, M.D.
- Case Report* 417 **Surgical Management of Univentricular Heart with Subaortic Obstruction**  
Sang C. Park, M.D., Ralph D. Siewers, M.D., William H. Neches, M.D., J. R. Zuberbuhler, M.D., Robert A. Mathews, M.D., Frederick Jay Fricker, M.D., Lee B. Beerman, M.D., and Donald R. Fischer, M.D.
- How to Do It* 422 **A Simple, Rapid Technique for Operative Closure of Patent Ductus Arteriosus in the Premature Infant**  
Irving L. Kron, M.D., Robert M. Mentzer, Jr., M.D., Karen S. Rheuban, M.D., and Stanton P. Nolan, M.D.
- 423 **Radical Forequarter Amputation with Chest Wall Resection**  
Jack A. Roth, M.D., Paul H. Sugarbaker, M.D., and Alan R. Baker, M.D.
- Note* 428 **Atraumatic Coronary Perfusion Cannula**  
Demetre M. Nicoloff, M.D., Ph.D.
- Thoracic Surgery Quiz* 430 **Questions**  
Norman A. Silverman, M.D., and Sidney Levitsky, M.D.
- Collective Review* 431 **The Surgical Treatment of Tetralogy of Fallot**  
H. E. Sánchez, M.D., D.Sc., E. M. Cornish, B.Sc.(Hons), M.B., Ch.B., Feng Chu Shih, M.D., J. de Nobrega, F.R.C.S., J. Hassoulas, M.Med.(Cape Town), J. Netto, M.D., R. E. Thornington, F.F.A.(S.A.), and C. N. Barnard, M.D., Ph.D., D.Sc.(Hon Causa)

- Thoracic Surgery Quiz* 437 **Answers**  
Norman A. Silverman, M.D., and Sidney Levitsky, M.D.

- Correspondence* 439 Coronary Artery Stenosis after Aortic Valve Replacement  
Ray Chu-Jeng Chiu, M.D., Ph.D.

- 439 A New Venous Cannula for Use during CPB  
Ilhan Bahadir, M.D., and Edward B. Diethrich, M.D.

- 440 Simplified Aortic Cannulation  
C. Del Campo, M.D., F.R.C.S.(C)

- 440 Complications of Aortic Cannulation  
Ronald H. Hayward, M.B., Ch.B., F. L. Korompai, M.D.,  
and Wade L. Knight, M.D.

- Announcements* 386 Notice from the Southern Thoracic Surgical Association

- 397 Notice Regarding Manuscript Submission

- 403 Notice from the American Board of Thoracic Surgery

- 416 Notice from the American Board of Thoracic Surgery

## NO 6 JUNE 1984

- Editorial* 441 **Evaluation of Tomography and Mediastinoscopy for the Detection of Mediastinal Lymph Node Metastases**  
F. G. Pearson, M.D.

- Original Articles* 443 **Evaluation of Tomography and Mediastinoscopy for the Detection of Mediastinal Lymph Node Metastases**  
Michael Thermann, M.D., H. Poser, M.D., K. H. Müller-Hermelink, M.D.,  
H. Troidl, M.D., S. Brieler, M.D., V. Amend, and D. Schröder, M.D.

- 448 **The Meadox Unicus Pericardial Bioprosthetic Heart Valve: New Concept**  
Shlomo Gabbay, M.D., Uberto Bortolotti, M.D., George Cipolletti, M.S.,  
Fred Wasserman, M.A., Robert W. M. Frater, M.B., Ch.B.,  
and Stephen M. Factor, M.D.

- 457 **Albumin Coating of a Knitted Polyester Arterial Prosthesis: An Alternative to Preclotting**  
R. Guidoin, Ph.D., R. Snyder, Ph.D., L. Martin, R.N., K. Botzko, Eng.,  
M. Marois, M.D., J. Awad, M.D., Ph.D., M. King, Eng.,  
D. Domurado, M.D., Ph.D., M. Bedros, M.D., and C. Gosselin, M.D.

- 466 **Fresh Frozen Plasma: A Solution to Heparin Resistance during Cardiopulmonary Bypass**  
Adib H. Sabbagh, M.D., George K. T. Chung, M.D., Paul Shuttleworth, C.C.P.,  
Billy J. Applegate, C.C.P., and William Gabrhel, C.C.P.



- 469 **Rebound Vasospasm after Coronary Revascularization in Association with Calcium Antagonist Withdrawal**  
Richard M. Engelman, M.D., Ioannis Hadji-Rousou, M.D.,  
Robert H. Breyer, M.D., Peter Whittredge, M.D., William Harbison, M.D.,  
and Robert V. Chircop, M.D.
- 473 **Distal Coronary Artery Dissection following Percutaneous Transluminal Coronary Angioplasty**  
Douglas A. Murphy, M.D., Joseph M. Craver, M.D.,  
and Spencer B. King III, M.D.
- 479 **Acute Physiological Changes following Heart-Lung Allotransplantation in Dogs**  
T. Peter Downing, M.D., Ali M. Sadeghi, M.D., William A. Baumgartner, M.D.,  
Bruce A. Reitz, M.D., Alan Brackup, B.A., Thomas Feeley, M.D.,  
Frederick Mihm, M.D., and Norman E. Shumway, M.D., Ph.D.
- 484 **The Surgical Management of Extravalvular Aortic Root Infection**  
B. Sethia, F.R.C.S., I. J. Reece, F.R.C.S., A. W. Forrester, F.R.C.S.,  
and K. G. Davidson, F.R.C.S.
- 488 **Prevention of Pericardial Adhesions with Dextran 70**  
Robert J. Robison, M.D., John W. Brown, M.D., William P. Deschner, M.D.,  
Bruce Hughes, M.D., and Harold King, M.D.
- 491 **Gas Exchange and Facilitation of High-Frequency Ventilation in Intrathoracic Surgery**  
Shuji Seki, M.D., Keiji Goto, M.D., Tetsuji Kondo, M.D.,  
Yasunori Fukushima, M.D., Hideaki Konishi, M.D.,  
and Futami Kosaka, M.D.
- 497 **Endotracheal Tube with Movable Blocker to Prevent Aspiration of Intratracheal Bleeding**  
Hiroshi Inoue, M.D., Akira Shohtsu, M.D., Junichi Ogawa, M.D.,  
Shirosaku Koide, M.D., and Shiaki Kawada, M.D.
- 500 **Pneumothorax in the Marfan Syndrome: Prevalence and Therapy**  
John R. Hall, M.D., Reed E. Pyeritz, M.D., Ph.D., David L. Dudgeon, M.D.,  
and J. Alex Haller, Jr., M.D.
- Case Report* 505 **Complete Transection of the Intrathoracic Trachea Due to Blunt Trauma**  
Harold L. Lazar, M.D., Byron Thomashow, M.D., and Thomas C. King, M.D.
- How to Do It* 508 **Temporary Unilateral Pulmonary Artery Occlusion: A Method for Controlling Swan-Ganz Catheter-Induced Hemoptysis**  
J. Gilbert Stone, M.D., Alber N. Faltas, M.D., Hoshang J. Khambatta, M.D.,  
Allen I. Hyman, M.D., and James R. Malm, M.D.
- Collective Review* 511 **Pneumopericardium Resulting in Cardiac Tamponade**  
Robin G. Cummings, M.D., Robert L. R. Wesley, M.D., Ph.D.,  
David H. Adams, M.D., and James E. Lowe, M.D.
- Correspondence* 519 **Kussmaul's Sign**  
David H. Spodick, M.D., D.Sc.

- 519 Aortic Root Venting  
Alberto J. Larrieu, M.D., Suresh C. Ghosh, M.B., B.S., F.A.C.S., F.C.C.P., F.I.C.S.,  
Grant Whittlesey, Rebecca Bergdale, and David Reale
- 519 Reply  
Vincent R. Conti, M.D.
- 519 Aortic Cannulation Techniques  
Douglas A. Murphy, M.D.
- 520 Reply  
Raul Garcia-Rinaldi, M.D., Ph.D.
- 520 Reply  
G. Frank O. Tyers, M.D., F.R.C.S.(C)
- 521 Direct Current Cardioversion  
Barry Fernando, M.D., Robert W. Emery, M.D., Jack G. Copeland, M.D.,  
and James K. Fuller, M.D.

*Indexes to Volume 37* 522 Author Index

525 Subject Index

*Announcements* 442 Notice Regarding Manuscript Submission

487 Notice from the Southern Thoracic Surgical Association

499, 510 Notice from the American Board of Thoracic Surgery

